

RE: 807184_Master - H&H-NC/Dogwood/

Trenco

818 Soundside Rd
 Edenton, NC 27932

Site Information:

Project Customer: H and H Project Name: 807184
 Lot/Block: B Subdivision:
 Model:
 Address: All
 City: Fayetteville State: NC

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2009/TPI2007 Design Program: MiTek 20/20 7.6
 Wind Code: ASCE 7-05 Wind Speed: 130 mph Design Method: MWFRS(low-rise)/C-C hybrid Wind ASCE 7-05
 Roof Load: 40.0 psf Floor Load: N/A psf

Mean Roof Height (feet): 25

Exposure Category: C

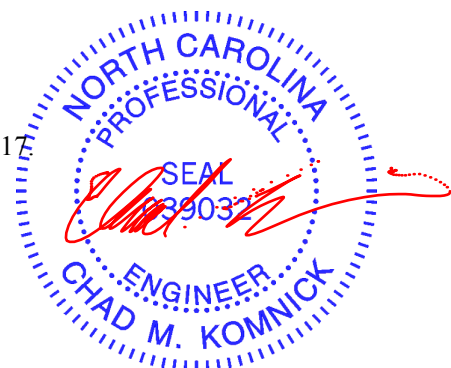
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I30485107	A01	7/18/17	35	I30485141	B18	7/18/17
2	I30485108	A02	7/18/17	36	I30485142	B19	7/18/17
3	I30485109	A03	7/18/17	37	I30485143	B20	7/18/17
4	I30485110	A04	7/18/17	38	I30485144	C01	7/18/17
5	I30485111	A05	7/18/17	39	I30485145	C02	7/18/17
6	I30485112	A06	7/18/17	40	I30485146	C03	7/18/17
7	I30485113	A07	7/18/17	41	I30485147	C04	7/18/17
8	I30485114	A08	7/18/17	42	I30485148	C05	7/18/17
9	I30485115	A09	7/18/17	43	I30485149	C06	7/18/17
10	I30485116	A10	7/18/17	44	I30485150	C07	7/18/17
11	I30485117	A11	7/18/17	45	I30485151	C08	7/18/17
12	I30485118	A12	7/18/17	46	I30485152	C09	7/18/17
13	I30485119	A13	7/18/17	47	I30485153	C10	7/18/17
14	I30485120	A14	7/18/17	48	I30485154	C11	7/18/17
15	I30485121	A15	7/18/17	49	I30485155	C12	7/18/17
16	I30485122	A16	7/18/17	50	I30485156	C13	7/18/17
17	I30485123	A17	7/18/17	51	I30485157	C14	7/18/17
18	I30485124	B01	7/18/17	52	I30485158	C15	7/18/17
19	I30485125	B02	7/18/17	53	I30485159	C16	7/18/17
20	I30485126	B03	7/18/17	54	I30485160	C17	7/18/17
21	I30485127	B04	7/18/17	55	I30485161	C18	7/18/17
22	I30485128	B05	7/18/17	56	I30485162	C19	7/18/17
23	I30485129	B06	7/18/17	57	I30485163	C20	7/18/17
24	I30485130	B07	7/18/17	58	I30485164	CJ01	7/18/17
25	I30485131	B08	7/18/17	59	I30485165	D01	7/18/17
26	I30485132	B09	7/18/17	60	I30485166	D02	7/18/17
27	I30485133	B10	7/18/17	61	I30485167	E01	7/18/17
28	I30485134	B11	7/18/17	62	I30485168	FG01	7/18/17
29	I30485135	B12	7/18/17	63	I30485169	J01	7/18/17
30	I30485136	B13	7/18/17	64	I30485170	J02	7/18/17
31	I30485137	B14	7/18/17	65	I30485171	J03	7/18/17
32	I30485138	B15	7/18/17	66	I30485172	J04	7/18/17
33	I30485139	B16	7/18/17	67	I30485173	J05	7/18/17
34	I30485140	B17	7/18/17	68	I30485174	J06	7/18/17

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Sumter,SC.

Truss Design Engineer's Name: Komnick, Chad

My license renewal date for the state of North Carolina is December 31, 2017.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



July 18, 2017

RE: 807184_Master - H&H-NC/Dogwood/

No.	Seal#	Job ID#	Truss Name	Date
69	I30485175	807184	Master07	7/18/17
70	I30485176	807184	Master08	7/18/17
71	I30485177	807184	Master09	7/18/17
72	I30485178	807184	Master10	7/18/17
73	I30485179	807184	Master11	7/18/17
74	I30485180	807184	Master12	7/18/17
75	I30485181	807184	Master13	7/18/17
76	I30485182	807184	Master14	7/18/17
77	I30485183	807184	Master15	7/18/17
78	I30485184	807184	Master16	7/18/17
79	I30485185	807184	Master17	7/18/17
80	I30485186	807184	Master18	7/18/17
81	I30485187	807184	Master19	7/18/17
82	I30485188	807184	Master20	7/18/17
83	I30485189	807184	Master21	7/18/17
84	I30485190	807184	Master22	7/18/17
85	I30485191	807184	Master23	7/18/17
86	I30485192	807184	Master24	7/18/17
87	I30485193	807184	Master25	7/18/17
88	I30485194	807184	Master26	7/18/17
89	I30485195	807184	Master27	7/18/17
90	I30485196	807184	Master28	7/18/17
91	I30485197	807184	Master29	7/18/17
92	I30485198	807184	Master30	7/18/17
93	I30485199	807184	Master32	7/18/17
94	I30485200	807184	Master33	7/18/17
95	I30485201	807184	Master34	7/18/17
96	I30485202	807184	Master35	7/18/17
97	I30485203	807184	Master36	7/18/17
98	I30485204	807184	Master37	7/18/17
99	I30485205	807184	Master301	7/18/17
100	I30485206	807184	Master301	7/18/17
101	I30485207	807184	Master302	7/18/17
102	I30485208	807184	Master303	7/18/17
103	I30485209	807184	Master304	7/18/17
104	I30485210	807184	Master305	7/18/17
105	I30485211	807184	Master306	7/18/17
106	I30485212	807184	Master307	7/18/17
107	I30485213	807184	Master308	7/18/17
108	I30485214	807184	Master309	7/18/17
109	I30485215	807184	Master310	7/18/17
110	I30485216	807184	Master311	7/18/17
111	I30485217	807184	Master312	7/18/17
112	I30485218	807184	Master313	7/18/17
113	I30485219	807184	Master314	7/18/17
114	I30485220	807184	Master315	7/18/17
115	I30485221	807184	Master301	7/18/17
116	I30485222	807184	Master302	7/18/17
117	I30485223	807184	Master301	7/18/17
118	I30485224	807184	Master302	7/18/17
119	I30485225	807184	Master303	7/18/17
120	I30485226	807184	Master301	7/18/17
121	I30485227	807184	Master302	7/18/17
122	I30485228	807184	Master301	7/18/17
123	I30485229	807184	Master302	7/18/17

Job 807184_MASTER	Truss A01	Truss Type HIP GIRDER	Qty 1	Ply 2	H&H-NC/Dogwood/ Job Reference (optional)	I30485107
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Builders FirstSource, Sumter, SC 29153

6.740 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:12 2017 Page 1
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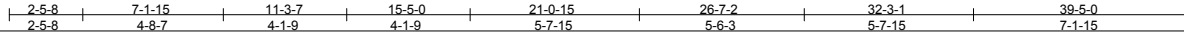
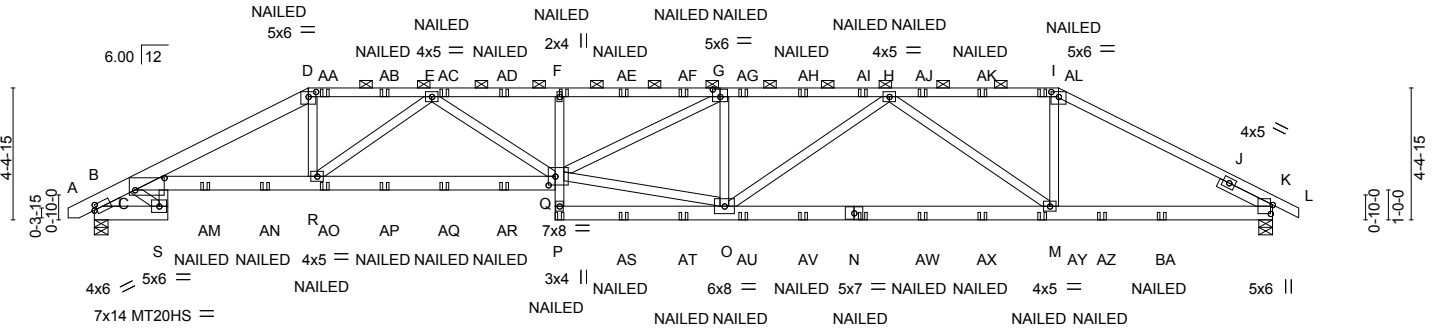


Plate Offsets (X,Y)-- [B:0-1-0-0-2-0], [C:0-11-12-0-4-14], [D:0-3-0-0-2-0], [G:0-3-0-0-3-0], [I:0-3-0-0-2-0], [K:0-3-9-0-0-13], [Q:0-2-12-0-3-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.82	Vert(LL)	-0.28	Q	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.92	Vert(TL)	-0.71	F	>670	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.59	Horz(TL)	-0.31	K	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.73	F	>650		
								Weight: 487 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
A-D: 2x6 SP DSS
BOT CHORD 2x6 SP No.2 *Except*
C-S,F-P: 2x4 SP No.2, C-Q: 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3
SLIDER Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-6 oc purlins, except 2-0-0 oc purlins (4-6-6 max.); D-I.
BOT CHORD Rigid ceiling directly applied or 6-11-11 oc bracing.

REACTIONS.

(lb/size) B=2268/0-5-8, K=2245/0-5-8
Max Horz B=-109(LC 7)
Max Uplift B=-1950(LC 6), K=-1980(LC 7)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-966/917, C-D=-5046/4722, D-AA=-4600/4423, AA-AB=-4600/4423, E-AB=-4600/4423, E-AC=-6751/6806, AC-AD=-6751/6806, F-AD=-6751/6806, F-AE=-6683/6749, AE-AF=-6683/6749, G-AF=-6683/6749, G-AG=-5377/5450, AG-AH=-5377/5450, AH-AI=-5377/5450, H-AI=-5377/5450, H-AJ=-3309/3251, AJ-AK=-3309/3251, AK-AL=-3309/3251, I-AL=-3309/3251, I-J=-3742/3549, J-K=-1963/1954
BOT CHORD C-AM=-4254/4520, AM-AN=-4254/4520, R-AN=-4254/4520, R-AO=-5840/5884, AO-AP=-5840/5884, AP-AQ=-5840/5884, AQ-AR=-5840/5884, Q-AR=-5840/5884, F-Q=-381/529, P-AS=-734/682, AS-AT=-734/682, O-AT=-734/682, O-AU=-4649/4673, AU-AV=-4649/4673, N-AV=-4649/4673, N-AW=-4649/4673, AW-AX=-4649/4673, AX-AY=-4649/4673, M-AY=-4649/4673, M-AZ=-3035/3261, AZ-BA=-3035/3261, K-BA=-3035/3261
WEBS D-R=-1575/1675, E-R=-1682/1989, E-Q=-1145/1113, O-Q=-4770/4846, G-Q=-1408/1417, G-O=-1126/1279, H-O=-868/923, H-M=-1757/2024, I-M=-1264/1322

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit over the bottom chord and any other members.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485107
807184_MASTER	A01	HIP GIRDER	1	2		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITek Industries, Inc. Tue Jul 18 10:58:12 2017 Page 2
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NOTES-

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1950, K=1980.
- 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-C=-60, C-D=-60, D-I=-60, I-L=-60, S-T=-20, C-Q=-20, P-W=-20

Concentrated Loads (lb)

Vert: Q=-21(F) F=-33(F) N=-21(F) AA=-64(F) AB=-64(F) AC=-64(F) AD=-64(F) AE=-33(F) AF=-33(F) AG=-33(F) AH=-33(F) AI=-33(F) AJ=-33(F) AK=-33(F) AL=-33(F) AM=-138(F) AN=-115(F) AS=-21(F) AT=-21(F) AU=-21(F) AV=-21(F) AW=-21(F) AX=-21(F) AY=-21(F) AZ=-115(F) BA=-138(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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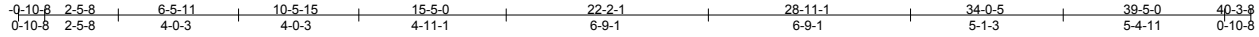


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485108
807184_MASTER	A02	HIP	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:13 2017 Page 1
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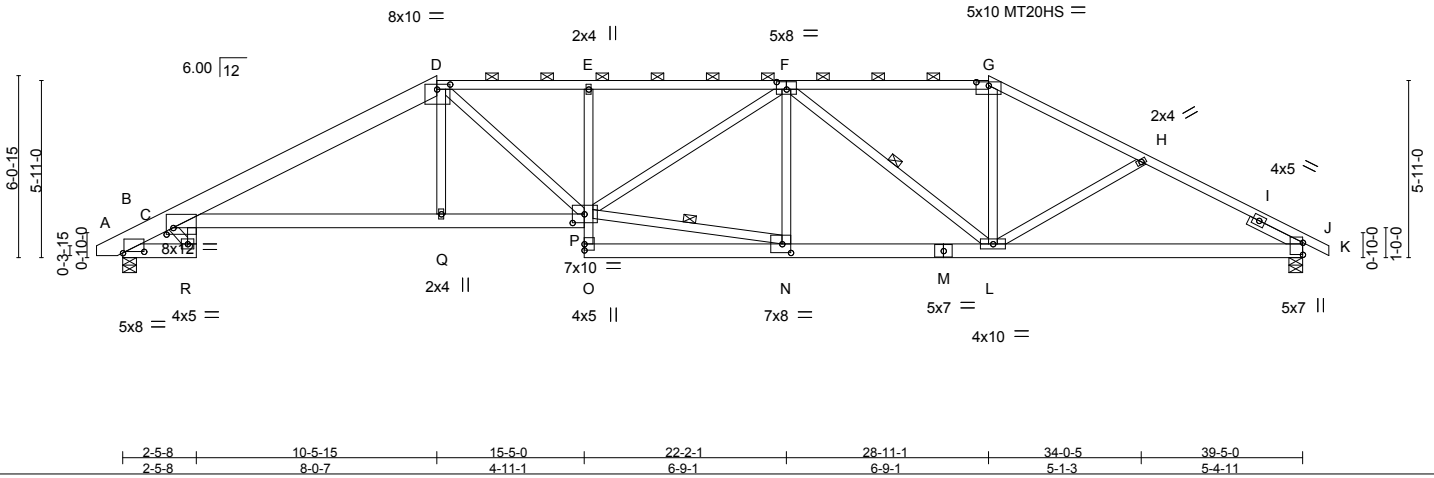


Plate Offsets (X,Y)-- [B:0-8-8,0-0-9], [C:0-2-12,0-2-10], [D:0-5-4,0-2-0], [F:0-4-0,0-3-0], [G:0-5-0,0-1-7], [N:0-3-8,0-3-8], [P:0-4-12,0-3-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.92	Vert(LL)	-0.25	E	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(TL)	-0.64	C-Q	>734	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.96	Horz(TL)	0.34	J	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-S)	Wind(LL)	0.41	C-Q	>999		Weight: 265 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
A-D: 2x8 SP DSS
BOT CHORD 2x6 SP No.2 *Except*
C-P: 2x6 SP No.1, E-O: 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-2-0 max.); D-G.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt N-P, F-L

REACTIONS.

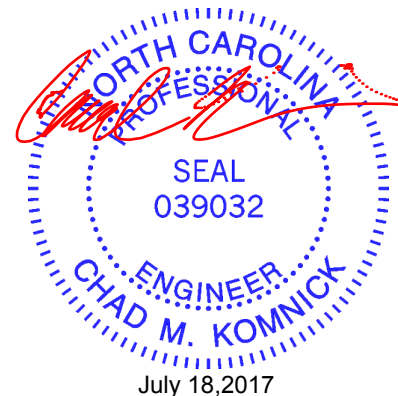
(lb/size) B=1621/0-5-8, J=1630/0-5-8
Max Horz B=-143(LC 9)
Max Uplift B=-510(LC 8), J=-547(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD B-C=-673/666, C-D=-3142/2576, D-E=-3229/2920, E-F=-3229/2928, F-G=-2180/2082,
G-H=-2483/2199, H-I=-2677/2399, I-J=-997/470
BOT CHORD C-Q=-2029/2798, P-Q=-2033/2810, E-P=-334/415, N-O=-354/510, M-N=-2091/2809,
L-M=-2091/2809, J-L=-1923/2325
WEBS D-Q=-129/492, D-P=-485/700, N-P=-1757/2326, F-P=-377/551, F-N=-231/347,
F-L=-899/693, G-L=-490/709, H-L=-160/417

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=510, J=547.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485109
807184_MASTER	A03	HIP	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:14 2017 Page 1

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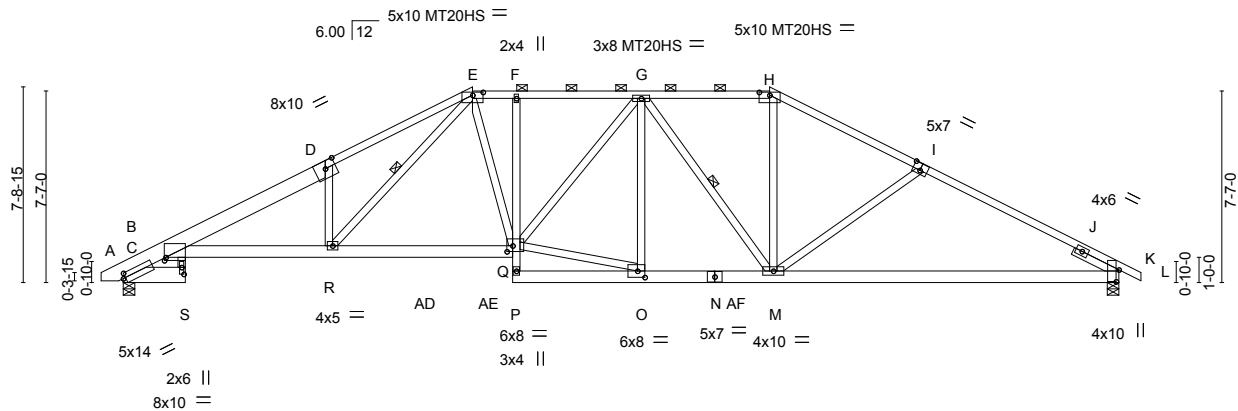


Plate Offsets (X,Y)-- [B:0-1-2,0-2-5], [C:0-0-11,0-1-8], [E:0-5-0,0-1-7], [H:0-5-0,0-1-7], [I:0-3-8,0-3-4], [K:0-5-9,0-1-5], [O:0-3-8,0-3-0], [Q:0-2-12,0-2-12], [S:0-3-4,0-1-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.92	Vert(LL)	-0.21	M-AB	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(TL)	-0.57	M-AB	>834	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(TL)	0.25	K	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-S)	Wind(LL)	0.31	Q-R	>999	240		
									Weight: 280 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
A-D: 2x8 SP DSS
BOT CHORD 2x6 SP No.2 *Except*
B-S: 2x8 SP DSS, C-Q: 2x6 SP No.1, F-P: 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 1-11-12

BRACING-

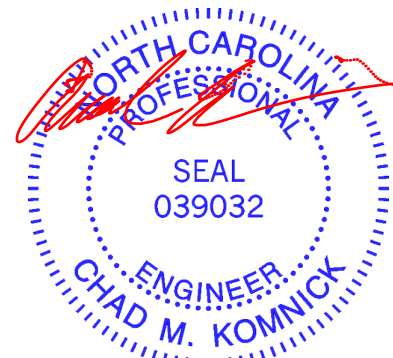
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-7-1 max.): E-H.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt G-M, E-R

REACTIONS. (lb/size) B=1631/0-5-8, K=1622/0-5-8
Max Horz B=-180(LC 9)
Max Uplift B=-558(LC 8), K=-591(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-3303/2822, D-E=-3358/3176, E-F=-2359/2302, F-G=-2354/2304, G-H=-1963/1993,
H-I=-2278/2102, I-J=-2605/2378, J-K=-1275/78
BOT CHORD C-R=-2305/2964, R-AD=-1529/2222, AD-AE=-1529/2222, Q-AE=-1529/2222, F-Q=-271/263,
O-AF=-1500/2147, N-AF=-1500/2147, M-N=-1500/2147, K-M=-1853/2254
WEBS D-R=-489/771, E-Q=-313/636, O-Q=-1348/1957, G-Q=-189/386, G-O=-347/302,
G-M=-446/338, H-M=-511/665, I-M=-359/672, E-R=-1107/1075

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=558, K=591.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 18, 2017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIT/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



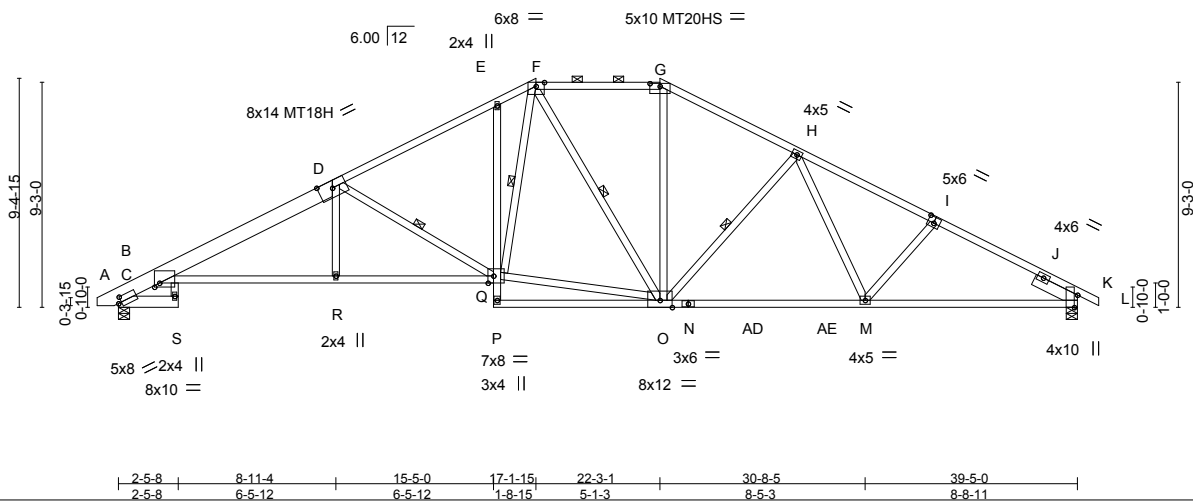
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485110
807184_MASTER	A04	HIP	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:15 2017 Page 1

ID:PFhEeKzMO67Kz1KM4J4YUBYNvpB-4d08iWRf94Kc_OGpdwRCv6f3gMGtg7W8VGJOHoywrv



Scale = 1:94.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.98	Vert(LL) -0.28	M-O	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 1.00	Vert(TL) -0.68	M-O	>695	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.91	Horz(TL) 0.39	K	n/a	n/a	MT18H	244/190
BCDL 10.0	Code IRC2009/TP12007	(Matrix-S)	Wind(LL) 0.39	R-Y	>999	240		Weight: 259 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* A-D: 2x8 SP DSS, I-L: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-1-5 max.): F-G.
BOT CHORD 2x4 SP No.2 *Except* B-S: 2x6 SP No.2, K-N: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt D-Q, F-Q, F-O, H-O
SLIDER Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) B=1623/0-5-8, K=1630/0-5-8
Max Horz B=-217(LC 9)
Max Uplift B=-592(LC 8), K=-630(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-3174/2778, D-E=-2397/2268, E-F=-2242/2405, F-G=-1717/1932, G-H=-1995/2034, H-I=-2464/2339, I-J=-2628/2401, J-K=-561/116
BOT CHORD C-R=-2280/2867, Q-R=-2278/2874, E-Q=-104/335, N-O=-1566/2062, N-AD=-1566/2062, AD-AE=-1566/2062, M-AE=-1566/2062, K-M=-1898/2255
WEBS D-R=0/322, D-Q=-953/1043, O-Q=-1073/1725, F-Q=-950/945, F-O=-393/201, G-O=-459/533, H-O=-531/729, H-M=-187/341, I-M=-163/399

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=592, K=630.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485111
807184_MASTER	A05	ROOF SPECIAL	7	1		

Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:58:16 2017 Page 1
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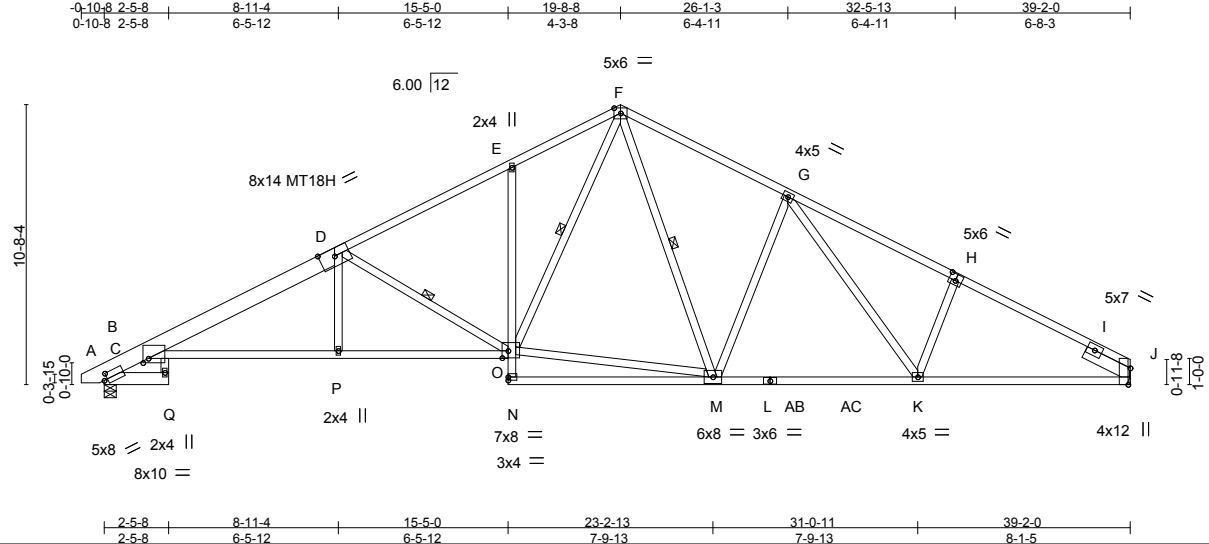


Plate Offsets (X,Y)-- [B:0-1-10.0-2-13], [C:0-2-7.0-2-0], [H:0-3-0.0-3-0], [J:0-7-9.Edge], [O:0-2-12.0-3-4]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.98	Vert(LL) -0.29 K-M >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.89	Vert(TL) -0.68 K-M >696 240	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.99	Horz(TL) 0.40 J n/a n/a		
BCDL 10.0	Code IRC2009/TP12007	(Matrix-S)	Wind(LL) 0.39 P-W >999 240		
				Weight: 251 lb	FT = 20%

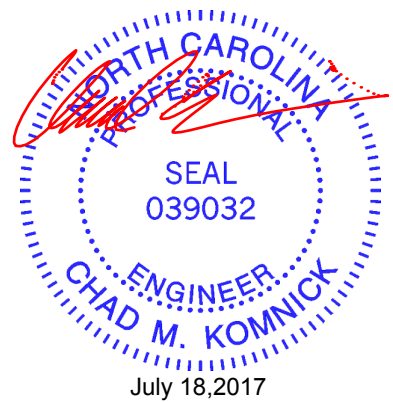
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
A-D: 2x8 SP DSS, H-J: 2x4 SP SS
BOT CHORD 2x4 SP No.2 *Except*
B-Q: 2x6 SP No.2, C-O, J-L: 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Right 2x6 SP No.2 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt D-O, F-O, F-M

REACTIONS. (lb/size) B=1613/0-5-8, J=1567/Mechanical
Max Horz B=260(LC 8)
Max Uplift B=612(LC 8), J=-574(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-3154/2815, D-E=-2375/2298, E-F=-2306/2543, F-G=-2030/2214, G-H=-2401/2419, H-I=-2539/2336, I-J=-373/205
BOT CHORD C-P=-2363/2847, O-P=-2361/2854, E-O=-307/538, M-AB=-1484/1930, L-AB=-1484/1930, L-AC=-1484/1930, K-AC=-1484/1930, J-K=-1861/2165
WEBS D-P=0/328, D-O=-950/1051, M-O=-874/1406, F-O=-1184/1153, F-M=-655/626, G-M=-579/874, G-K=-367/358, H-K=-205/474

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=612, J=574.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Job 807184_MASTER	Truss A06	Truss Type Common	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485112
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:58:17 2017 Page 1
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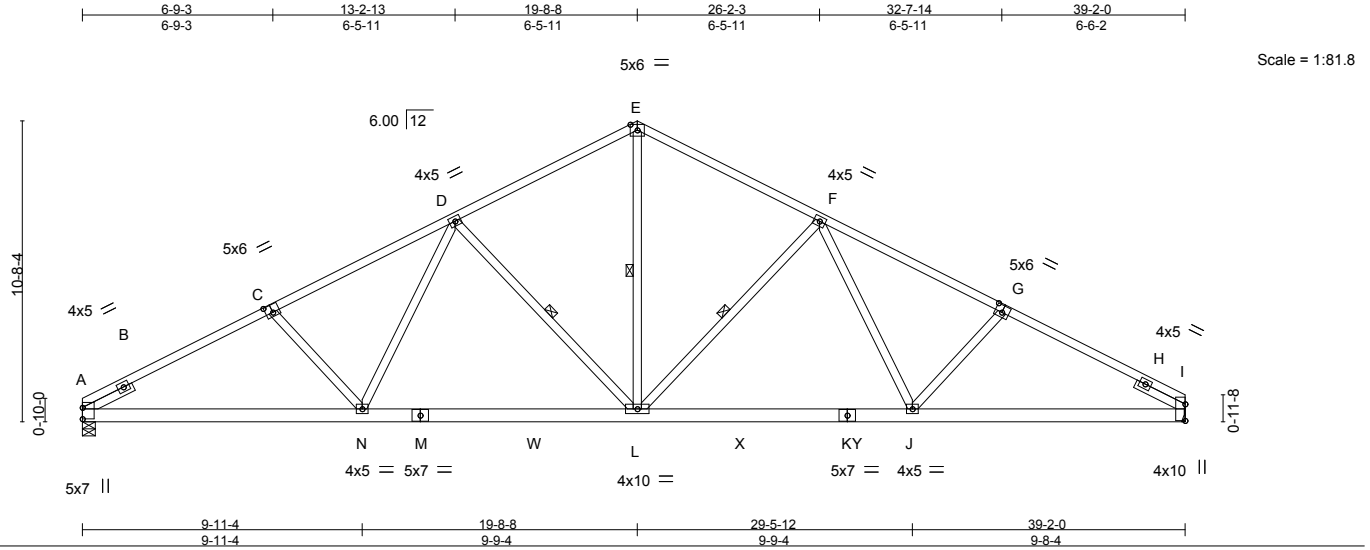


Plate Offsets (X,Y)-- [C:0-3-0,0-3-4], [G:0-3-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.92	Vert(LL)	-0.22	J-L >999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.86	Vert(TL)	-0.50	J-L >938	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(TL)	0.13	I n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.28	J-L >999	240		
								Weight: 241 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt D-L, E-L, F-L

REACTIONS. (lb/size) A=1567/0-5-8, I=1567/Mechanical

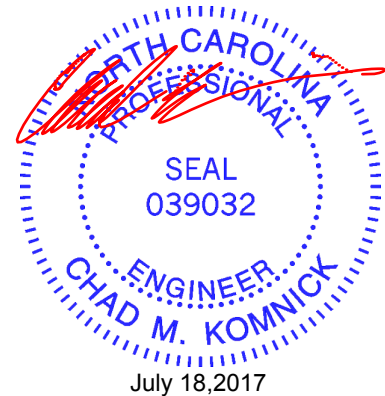
Max Horz A=241(LC 7)
 Max Uplift A=-577(LC 8), I=-574(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD A-B=-975/491, B-C=-2658/2466, C-D=-2452/2364, D-E=-1800/1928, E-F=-1801/1929, F-G=-2394/2311, G-H=-2586/2405,
 H-I=-671/152
 BOT CHORD A-N=-2010/2307, M-N=-1519/1961, M-W=-1519/1961, L-W=-1519/1961, L-X=-1499/1940, K-X=-1499/1940, K-Y=-1499/1940,
 J-Y=-1499/1940, I-J=-1944/2235
 WEBS C-N=-295/567, D-N=-291/456, D-L=-670/884, E-L=-1205/1223, F-L=-642/854, F-J=-232/408, G-J=-264/534

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=577, I=574.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITEK connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIT/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



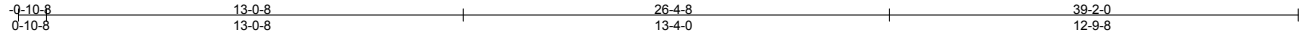
818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss A07	Truss Type GABLE	Qty 2	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485113
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:58:18 2017 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUBvNvpB-UCiHKYYS?iBrs?OI2?wXkHlqZWfthVbBEX2u7ywrVz



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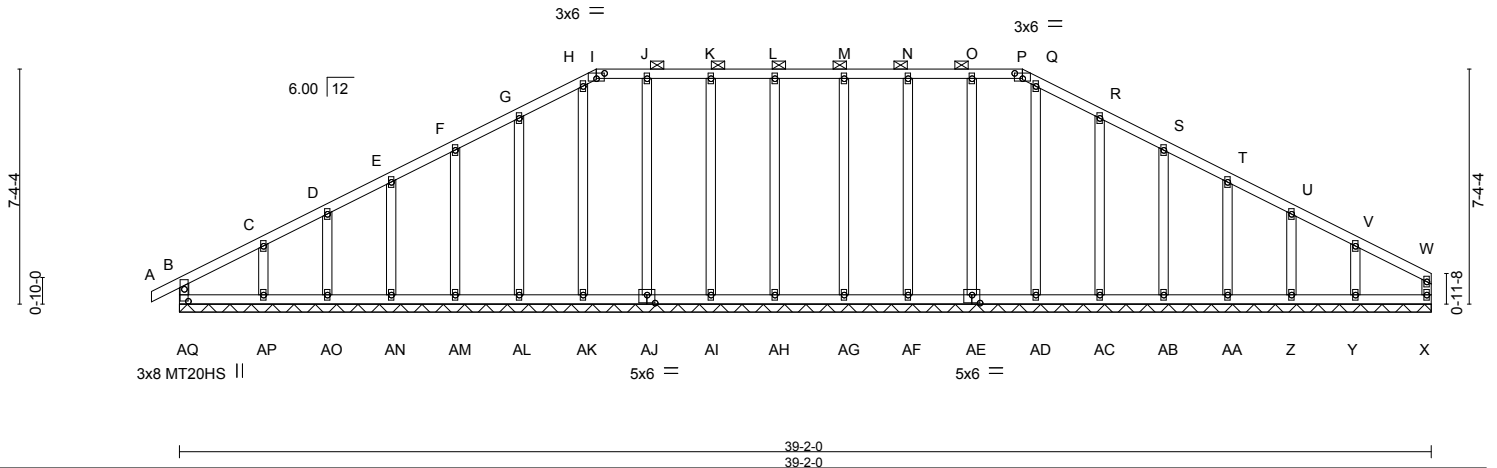


Plate Offsets (X,Y)-- [I:0-3-0,0-2-0], [P:0-3-0,0-2-0], [AE:0-3-0,0-3-0], [AJ:0-3-0,0-3-0], [AQ:0-4-8,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.00	A	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(TL)	-0.00	A	n/r	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(TL)	0.01	X	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						
								Weight: 258 lb	FT = 20%

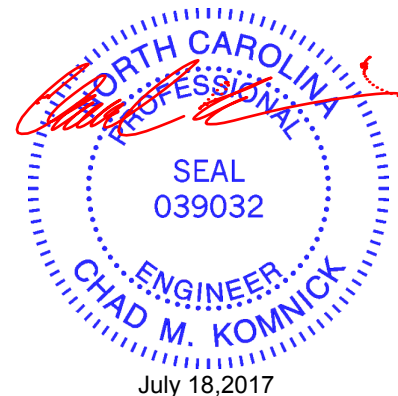
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): I-P.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 39-2-0.
(lb) - Max Horz AQ=254(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) X, AK except AQ=135(LC 6), AH=131(LC 7), AI=133(LC 6), AJ=106(LC 7), AL=195(LC 8), AM=163(LC 8), AN=179(LC 8), AO=134(LC 8), AP=282(LC 8), AG=131(LC 7), AF=132(LC 6), AE=107(LC 7), AC=198(LC 9), AB=163(LC 9), AA=178(LC 9), Z=138(LC 9), Y=278(LC 9)
Max Grav All reactions 250 lb or less at joint(s) AQ, X, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AG, AF, AE, AD, AC, AB, AA, Z, Y

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD E-F=42/305, F-G=42/402, G-H=43/522, H-I=41/504, I-J=14/522, J-K=14/522, K-L=14/522, L-M=14/522, M-N=14/522, N-O=14/522, O-P=14/522, P-Q=41/504,
Q-R=43/522, R-S=42/402, S-T=43/297
WEBS C-AP=135/290, V-Y=140/282

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 7) All plates are 2x4 MT20 unless otherwise indicated.
 - 8) Gable requires continuous bottom chord bearing.
 - 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 10) Gable studs spaced at 2-0-0 oc.
 - 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) X, AK except (jt=lb) AQ=135, AH=131, AI=133, AJ=106, AL=195, AM=163, AN=179, AO=134, AP=282, AG=131, AF=132, AE=107, AC=198, AB=163, AA=178, Z=138, Y=278.
 - 14) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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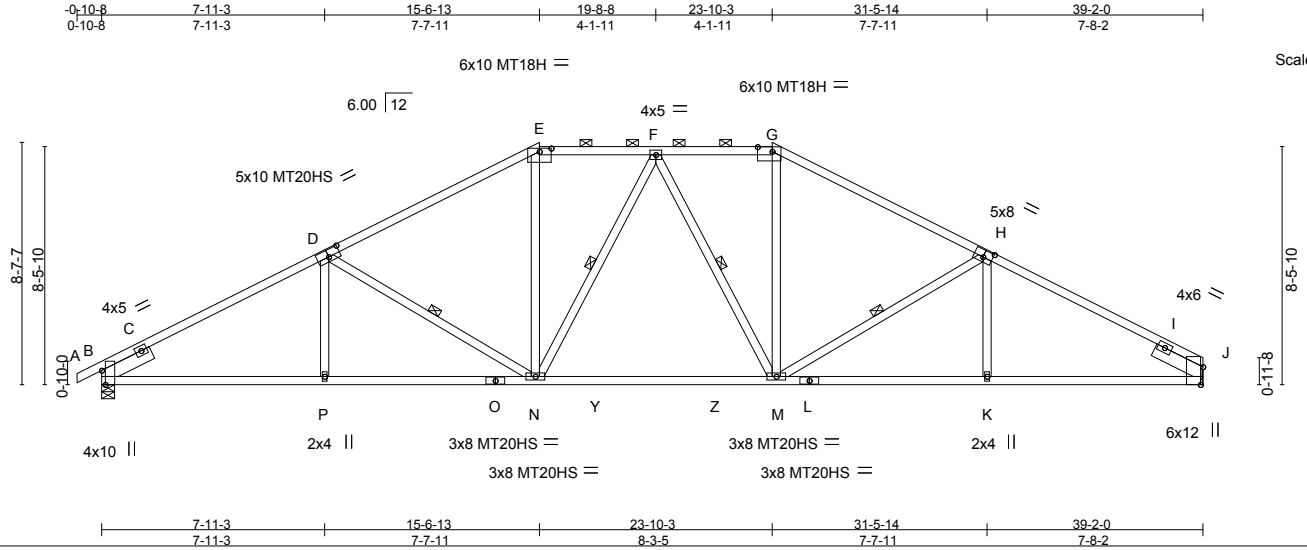
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485114
807184_MASTER	A08	Hip	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:58:19 2017 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUBYNvpB-yPGfYUADlq2S0aasmW94yqlhze5c2ikQuHbQaywrvY



Scale = 1:81.9

Plate Offsets (X,Y)-- [B:0-6-1,Edge], [D:0-5-0-0-3-0], [E:0-5-0-0-1-7], [G:0-6-4-0-2-0], [H:0-4-0-0-3-0], [J:0-7-9,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.98	Vert(LL)	-0.30	M-N	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.92	Vert(TL)	-0.67	M-N	>699	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.51	Horz(TL)	0.22	J	n/a	MT18H	244/190
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.30	K-M	>999	Weight: 221 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
A-D: 2x4 SP No.1, H-J: 2x4 SP SS
BOT CHORD 2x4 SP No.1 *Except*
L-O: 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-11-1 max.); E-G.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt D-N, F-N, F-M, H-M

REACTIONS. (lb/size) B=1620/0-5-8, J=1566/Mechanical
Max Horz B=218(LC 8)
Max Uplift B=610(LC 8), J=534(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD B-C=-593/139, C-D=-2607/2323, D-E=-2134/2034, E-F=-1819/1966, F-G=-1812/1959,
G-H=-2122/2023, H-I=-2543/2269, I-J=-313/100
BOT CHORD B-P=-1855/2239, O-P=-1857/2238, N-O=-1857/2238, N-Y=-1300/1870, Y-Z=-1300/1870,
M-Z=-1300/1870, L-M=-1797/2171, K-L=-1797/2171, J-K=-1794/2172
WEBS D-N=-509/714, E-N=-392/549, F-N=-278/226, F-M=-291/229, G-M=-379/537, H-M=-446/651

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=610, J=534.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485115
807184_MASTER	A09	HIP	1	1		

Builders FirstSource, Sumter, SC 29153 7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:58:20 2017 Page 1

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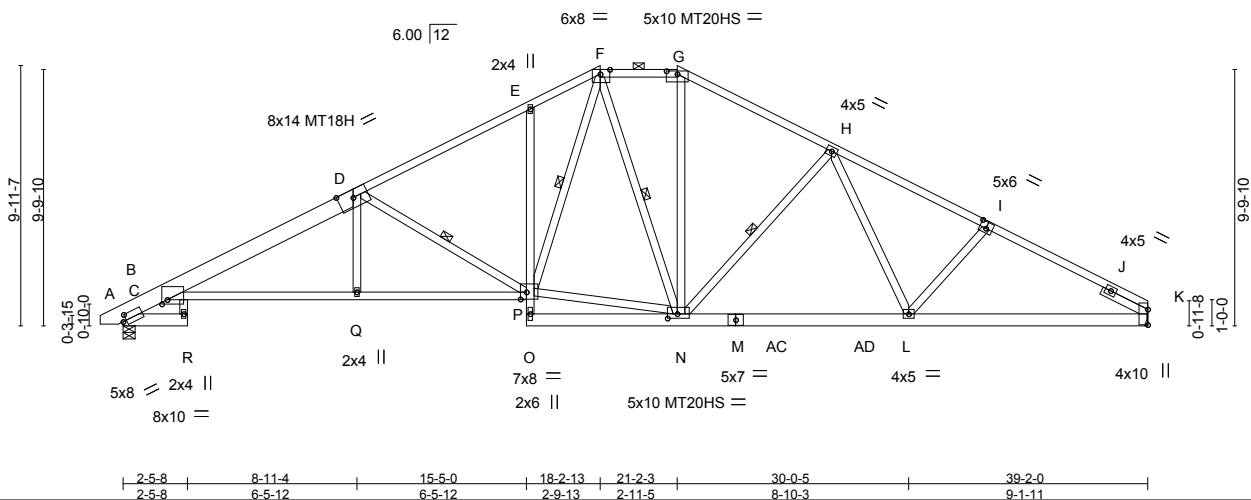


Plate Offsets (X,Y)-- [B:0-1-10,0-2-13], [C:0-2-7,0-2-0], [F:0-4-6,Edge], [G:0-5-0,0-1-7], [I:0-3-0,0-3-0], [N:0-4-8,0-2-0], [P:0-2-12,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.97	Vert(LL)	-0.23	Q-X >999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(TL)	-0.61	Q-X >765	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(TL)	0.36	K n/a	n/a	MT18H	244/190
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.39	Q-X >999	240		Weight: 276 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* A-D: 2x8 SP DSS	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-5-7 max.): F-G.
BOT CHORD 2x4 SP No.2 *Except* B-R,M-O,K-M: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt D-P, F-P, F-N, H-N
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) B=1613/0-5-8, K=1567/Mechanical
Max Horz B=242(LC 8)
Max Uplift B=600(LC 8), K=561(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-3149/2786, D-E=-2375/2273, E-F=-2272/2471, F-G=-1633/1894, G-H=-1911/1991,
H-I=-2396/2300, I-J=-2583/2376, J-K=-642/183
BOT CHORD C-Q=-2338/2844, P-Q=-2337/2852, E-P=-219/460, M-N=-1543/1991, M-AC=-1543/1991,
AC-AD=-1543/1991, L-AD=-1543/1991, K-L=-1923/2232
WEBS D-Q=0/321, D-P=-948/1048, N-P=-923/1553, F-P=-1107/1070, F-N=-346/190,
G-N=-483/530, H-N=-557/758, H-L=-189/356, I-L=-226/475

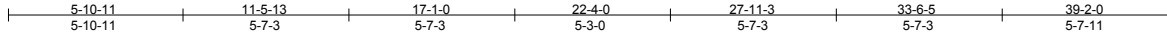
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=600, K=561.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job 807184_MASTER	Truss A10	Truss Type Hip	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485116
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:58:21 2017 Page 1
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5x10 MT20HS =

5x10 MT20HS =

Scale = 1:77.7

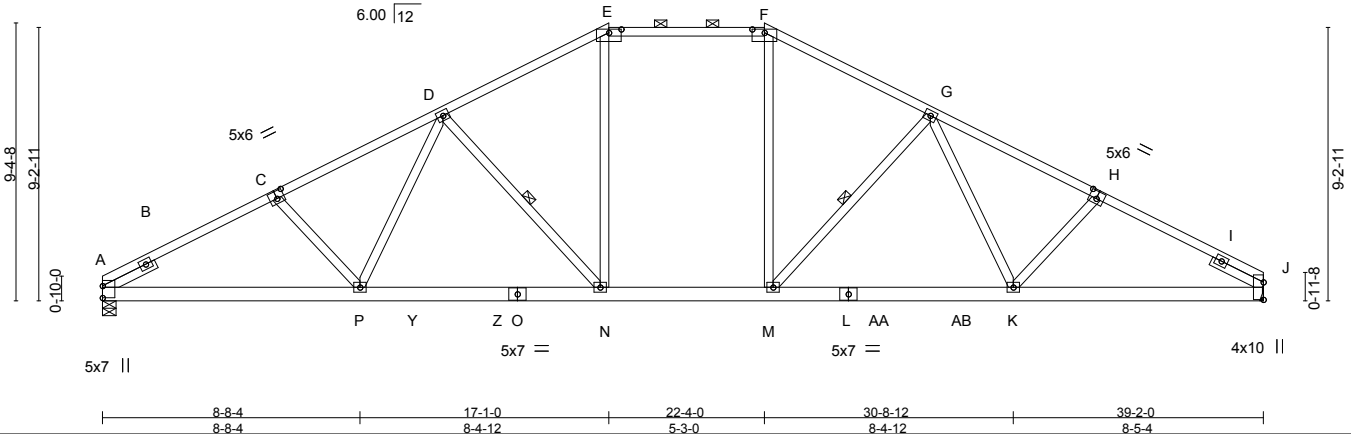


Plate Offsets (X,Y)-- [C:0-3-0-0-3-0], [E:0-5-0-0-1-7], [F:0-5-0-0-1-7], [H:0-3-0-0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	-0.30	N-P	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(TL)	-0.55	N-P	>856	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(TL)	0.13	J	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.33	N-P	>999		Weight: 242 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-1-2 max.); E-F.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt D-N, G-M

REACTIONS.

(lb/size) A=1567/0-5-8, J=1567/Mechanical
 Max Horz A=207(LC 7)
 Max Uplift A=-553(LC 8), J=-550(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD A-B=-955/603, B-C=-2668/2434, C-D=-2519/2354, D-E=-2060/2036, E-F=-1782/1929,
 F-G=-2060/2036, G-H=-2447/2288, H-I=-2580/2359, I-J=-599/262
 BOT CHORD A-P=-1998/2319, P-Y=-1616/2100, Y-Z=-1616/2100, O-Z=-1616/2100, N-O=-1616/2100,
 M-N=-1128/1782, L-M=-1590/2071, L-AA=-1590/2071, AA-AB=-1590/2071, K-AB=-1590/2071,
 J-K=-1918/2232
 WEBS C-P=-211/459, D-P=-204/369, D-N=-594/726, E-N=-473/615, F-M=-472/614, G-M=-555/686,
 G-K=-131/305, H-K=-175/422

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 4x5 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=553, J=550.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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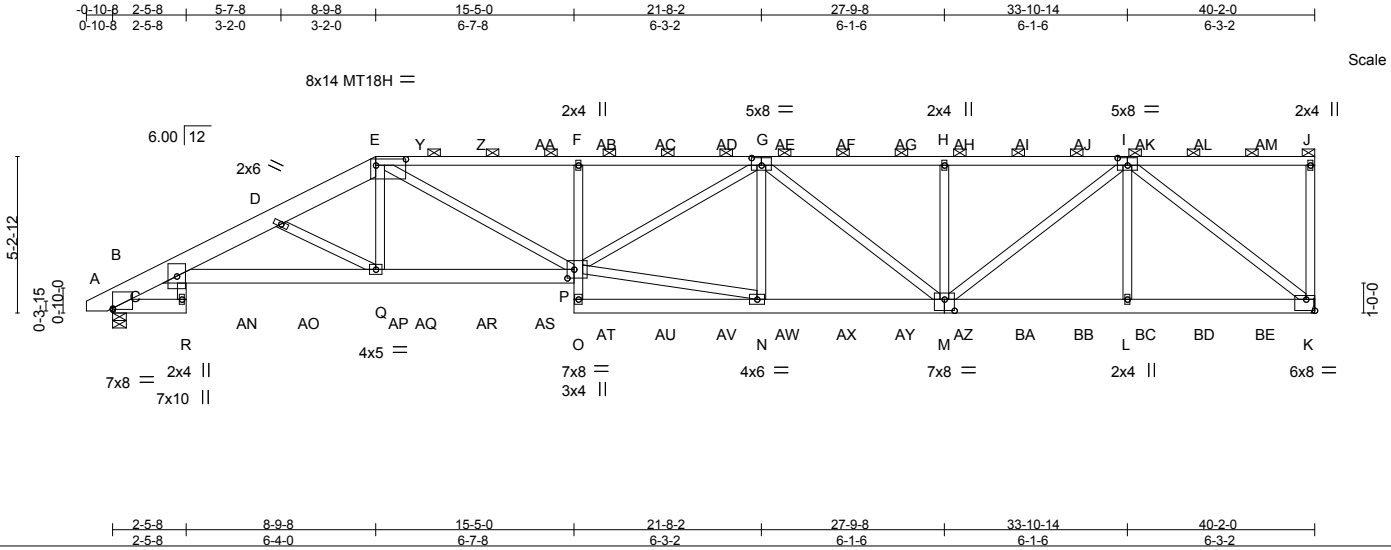


818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss A11	Truss Type HALF HIP GIRDER	Qty 1	Ply 2	H&H-NC/Dogwood/ Job Reference (optional)	130485117
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Builders FirstSource, Sumter, SC 29153

6.740 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:58:23 2017 Page 1
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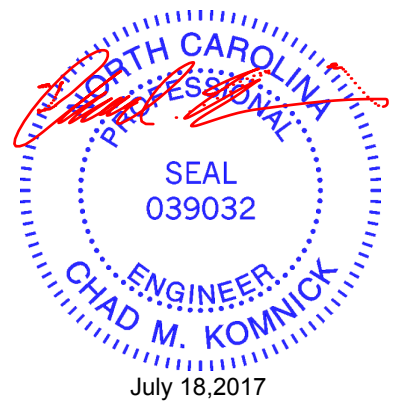
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.20	F	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.76	Vert(TL)	-0.50	F	>968	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.76	Horz(TL)	-0.27	K	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.62	F	>774		Weight: 566 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* A-E: 2x8 SP DSS, E-G: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-8 max.): E-J.
BOT CHORD 2x6 SP No.2 *Except* F-O: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-9 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (lb/size) K=2157/Mechanical, B=2398/0-5-8
Max Horz B=303(LC 13)
Max Uplift K=-2873(LC 5), B=-2506(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-5646/6530, D-E=-4796/5806, E-Y=-5516/7174, Y-Z=-5516/7174, Z-AA=-5516/7174, F-AA=-5516/7174, F-AB=-5456/7090, AB-AC=-5456/7090, AC-AD=-5456/7090, G-AD=-5456/7090, G-AE=-3880/5198, AE-AF=-3880/5198, AF-AG=-3880/5198, H-AG=-3880/5198, H-AH=-3880/5198, AH-AI=-3880/5198, AI-AJ=-3880/5198, I-AJ=-3880/5198, J-K=-191/281
BOT CHORD C-AN=-6290/5352, AN-AO=-6290/5352, AO-AP=-6290/5352, Q-AP=-6290/5352, Q-AQ=-5186/4199, AQ-AR=-5186/4199, AR-AS=-5186/4199, P-AS=-5186/4199, F-P=-567/966, O-AT=-828/597, AT-AU=-828/597, AU-AV=-828/597, N-AV=-828/597, N-AW=-6037/4561, AW-AX=-6037/4561, AX-AY=-6037/4561, M-AY=-6037/4561, M-AZ=-3238/2399, AZ-BA=-3238/2399, BA-BB=-3238/2399, L-BB=-3238/2399, L-BC=-3238/2399, BC-BD=-3238/2399, BD-BE=-3238/2399, K-BE=-3238/2399
WEBS D-Q=-1356/1415, E-Q=-1180/1168, E-P=-2352/1515, N-P=-5279/4017, G-P=-1244/1058, G-N=-487/756, G-M=-870/1072, H-M=-453/752, I-M=-2502/1890, I-L=-147/364, I-K=-3031/4086

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)



Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485117
807184_MASTER	A11	HALF HIP GIRDER	1	2		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:58:23 2017 Page 2
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NOTES-

- 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 98 lb down and 242 lb up at 10-4-4, 98 lb down and 242 lb up at 12-4-4, 98 lb down and 242 lb up at 14-4-4, 80 lb down and 177 lb up at 16-4-4, 80 lb down and 177 lb up at 18-4-4, 80 lb down and 177 lb up at 20-4-4, 80 lb down and 177 lb up at 22-4-4, 80 lb down and 177 lb up at 24-4-4, 80 lb down and 177 lb up at 26-4-4, 80 lb down and 177 lb up at 28-4-4, 80 lb down and 177 lb up at 30-4-4, 80 lb down and 177 lb up at 32-4-4, 80 lb down and 177 lb up at 34-4-4, and 80 lb down and 177 lb up at 36-4-4, and 80 lb down and 177 lb up at 38-4-4 on top chord, and 120 lb down and 109 lb up at 2-5-8, 115 lb down and 123 lb up at 4-4-4, 115 lb down and 181 lb up at 6-4-4, 115 lb down and 267 lb up at 8-4-4, at 10-4-4, at 12-4-4, at 14-4-4, 28 lb down and 70 lb up at 16-4-4, 28 lb down and 70 lb up at 18-4-4, 28 lb down and 70 lb up at 20-4-4, 28 lb down and 70 lb up at 22-4-4, 28 lb down and 70 lb up at 24-4-4, 28 lb down and 70 lb up at 26-4-4, 28 lb down and 70 lb up at 28-4-4, 28 lb down and 70 lb up at 30-4-4, 28 lb down and 70 lb up at 32-4-4, 28 lb down and 70 lb up at 34-4-4, and 28 lb down and 70 lb up at 36-4-4, and 28 lb down and 70 lb up at 38-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-E=-60, E-J=-60, R-S=-20, P-V=-20, K-O=-20

Concentrated Loads (lb)

Vert: R=-120(F) Y=-64(F) Z=-64(F) AA=-64(F) AB=-32(F) AC=-32(F) AD=-32(F) AE=-32(F) AF=-32(F) AG=-32(F) AH=-32(F) AI=-32(F) AJ=-32(F) AK=-32(F) AL=-32(F) AM=-32(F) AN=-115(F) AO=-115(F) AP=-115(F) AT=-22(F) AU=-22(F) AV=-22(F) AW=-22(F) AX=-22(F) AY=-22(F) AZ=-22(F) BA=-22(F) BB=-22(F) BC=-22(F) BD=-22(F) BE=-22(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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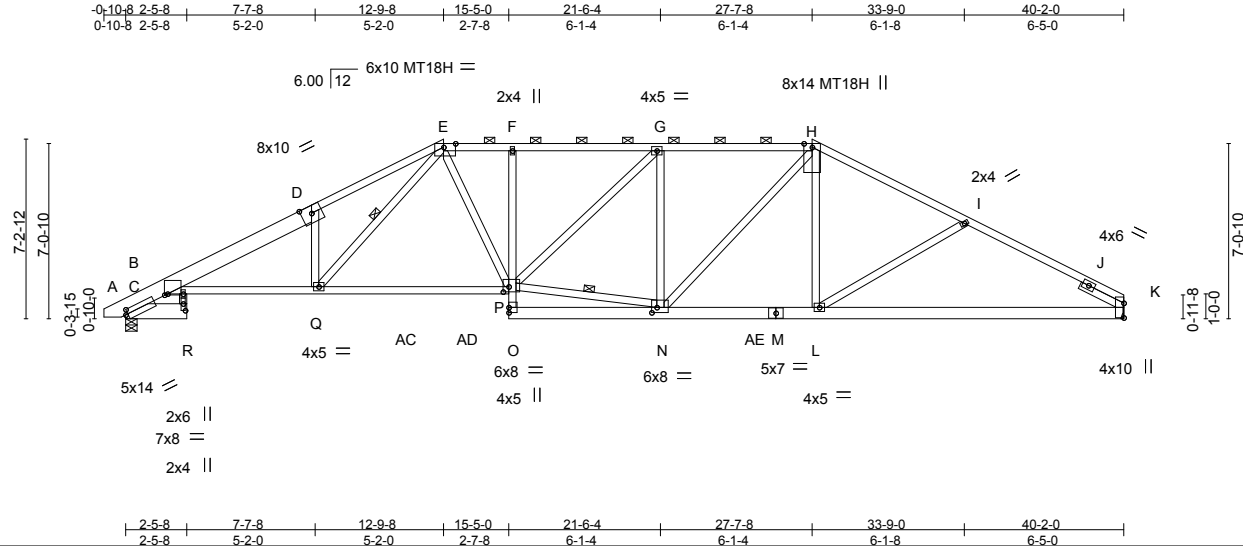
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485118
807184_MASTER	A12	HIP	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:58:24 2017 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-JM3YbbYJ1rSKZnSxfJ6Kn?XdC_MdHCMTZA_M6nywrvT



Scale = 1:92.7

Plate Offsets (X,Y)-- [B:0-1-2,0-2-5], [C:0-1-8,0-0-8], [E:0-5-12,Edge], [N:0-2-8,0-2-8], [P:0-2-12,0-2-8], [R:0-3-4,0-1-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.93	Vert(LL)	-0.27	P-Q	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(TL)	-0.72	P-Q	>671	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.93	Horz(TL)	0.33	K	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.40	P-Q	>999		Weight: 267 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
A-D: 2x8 SP DSS
BOT CHORD 2x6 SP No.2 *Except*
B-R: 2x8 SP DSS, C-P: 2x4 SP No.1, F-O: 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-2-7 max.); E-H.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt N-P, E-Q

REACTIONS. (lb/size) K=1607/Mechanical, B=1653/0-5-8
Max Horz B=181(LC 8)
Max Uplift K=-509(LC 9), B=-548(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-3412/2898, D-E=-3500/3267, E-F=-2684/2539, F-G=-2670/2537, G-H=-2436/2384,
H-I=-2395/2151, I-J=-2657/2425, J-K=-918/0
BOT CHORD C-Q=-2478/3103, Q-AC=-1753/2401, AC-AD=-1753/2401, F-P=-339/386,
N-AE=-1473/2081, M-AE=-1473/2081, L-M=-1473/2081, K-L=-1961/2299
WEBS D-Q=-555/813, E-P=-453/755, N-P=-1621/2248, G-P=-204/373, G-N=-680/649,
H-N=-483/637, H-L=-98/411, I-L=-262/567, E-Q=-1038/1021

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) K=509, B=548.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss A13	Truss Type HIP	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485119
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:58:25 2017 Page 1
ID:PFhEEKzMO67Kz1KM4J4YUBynVpB-nYdwoxZxo8aBBx1kC0dZJD4qMOi8IadoqkveDywrsvS

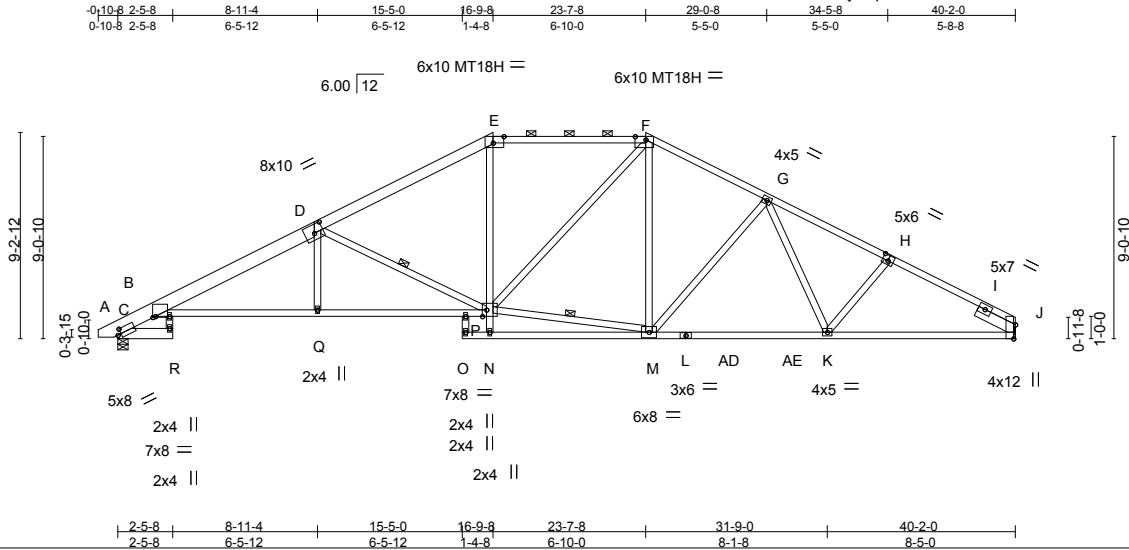


Plate Offsets (X,Y)--	[B:0-1-14,0-2-13], [C:0-1-8,0-0-8], [D:0-5-0,0-4-8], [E:0-5-12,Edge], [F:0-5-12,Edge], [H:0-3-0,0-3-0], [J:0-7-9,Edge], [P:0-2-4,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	-0.27	K-M	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.88	Vert(TL)	-0.65	K-M	>742	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(TL)	0.41	J	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.39	Q-Y	>999	Weight: 260 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* D-E: 2x6 SP No.2, A-D: 2x8 SP DSS, H-J: 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-10-9 max.): E-F.
BOT CHORD 2x4 SP No.2 *Except* B-R: 2x6 SP No.2, C-P,J-L: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* E-N: 2x4 SP No.2	WEBS 1 Row at midpt D-P, M-P
SLIDER Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) B=1666/0-5-8, J=1616/Mechanical
Max Horz B=224(LC 8)
Max Uplift B=588(LC 8), J=552(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-3388/2929, D-E=-2462/2265, E-F=-2074/2161, F-G=-2108/2093, G-H=-2473/2318,
H-I=-2615/2358, I-J=-440/280
BOT CHORD C-Q=-2495/3081, P-Q=-2493/3089, L-M=-1626/2114, L-AD=-1626/2114, AD-AE=-1626/2114,
K-AE=-1626/2114, J-K=-1886/2224
WEBS D-Q=0/366, D-P=-1105/1222, E-P=-410/644, M-P=-1187/1788, F-M=-264/382,
G-M=-460/661, G-K=-129/258, H-K=-98/334, F-P=-271/492

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=588, J=552.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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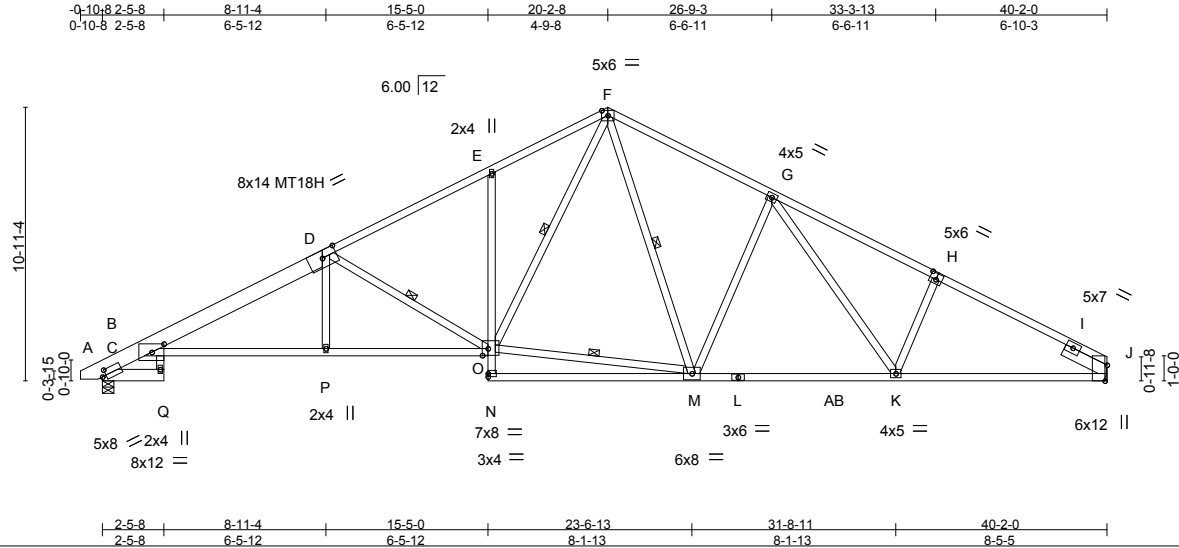


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485120
807184_MASTER	A14	ROOF SPECIAL	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:58:25 2017 Page 1
 ID:PFhEEKzM06?Kz1KM4J4YUB-nYdwoxZx08aBBx1kC0dZJD4n4Oh10iedoqkveDywrsv



Scale = 1:92.1

Plate Offsets (X,Y)-- [B:0-1-14,0-2-13], [C:0-5-13,0-4-0], [H:0-3-0,0-3-0], [J:0-7-9,Edge], [O:0-2-12,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.98	Vert(LL)	-0.33	K-M	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.95	Vert(TL)	-0.74	K-M	>652	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(TL)	0.41	J	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-S)	Wind(LL)	0.41	P-W	>999		
								Weight: 257 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
 A-D: 2x8 SP DSS, H-J: 2x4 SP SS
 BOT CHORD 2x4 SP No.2 *Except*
 B-Q: 2x6 SP No.2, C-O, J-L: 2x4 SP No.1
 WEBS 2x4 SP No.3
 SLIDER Right 2x6 SP No.2 1-11-12

BRACING-

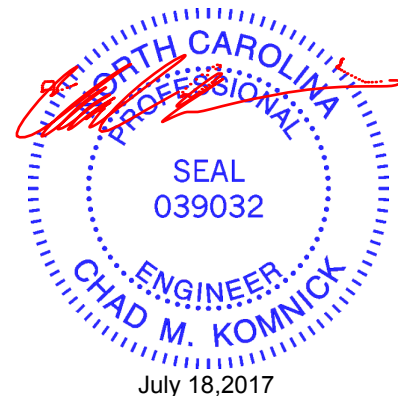
TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt D-O, M-O, F-O, F-M

REACTIONS. (lb/size) B=1653/0-5-8, J=1607/Mechanical
 Max Horz B=265(LC 8)
 Max Uplift B=627(LC 8), J=589(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD C-D=-3252/2902, D-E=-2470/2384, E-F=-2410/2648, F-G=-2064/2246, G-H=-2468/2478,
 H-I=-2616/2407, I-J=-412/224
 BOT CHORD C-P=-2442/2936, O-P=-2441/2943, E-O=-324/570, L-M=-1526/1982, L-AB=-1526/1982,
 K-AB=-1526/1982, J-K=-1919/2231
 WEBS D-P=0/329, D-O=-954/1052, M-O=-898/1430, F-O=-1234/1192, F-M=-655/647,
 G-M=-598/893, G-K=-371/374, H-K=-214/489

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=627, J=589.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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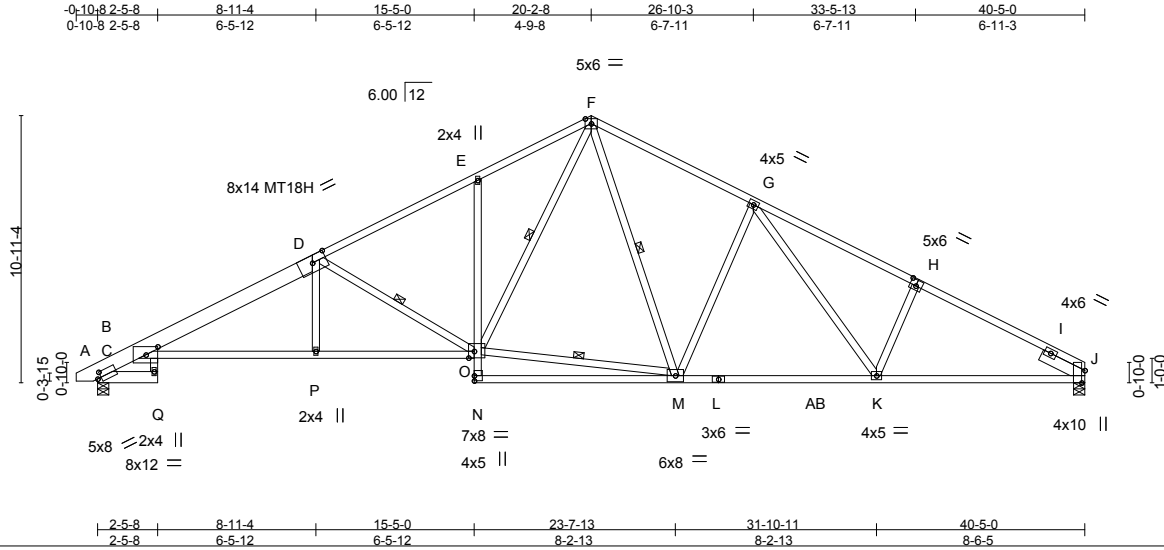


818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss A15	Truss Type ROOF SPECIAL	Qty 1	Ply 1	H&H-NC/Dogwood/ 130485121
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:26 2017 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-FIBIOHaZZSi2o4cwmk8osQcyno1CI9bm1UTTAgwrvrV



Scale = 1:94.3

Plate Offsets (X,Y)-- [B:0-1-14,0-2-13], [C:0-5-13,0-4-0], [H:0-3-0,0-3-0], [J:0-6-1,Edge], [O:0-2-12,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.98	Vert(LL)	-0.32	K-M	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.95	Vert(TL)	-0.71	K-M	>682	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.76	Horz(TL)	0.39	J	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-S)	Wind(LL)	0.40	P-W	>999		
								Weight: 257 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
A-D: 2x8 SP DSS, H-J: 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
B-Q: 2x6 SP No.2, C-O, J-L: 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt D-O, M-O, F-O, F-M

REACTIONS. (lb/size) B=1663/0-5-8, J=1617/0-5-8
Max Horz B=260(LC 8)
Max Uplift B=630(LC 8), J=594(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-3277/2922, D-E=-2494/2404, E-F=-2433/2667, F-G=-2099/2277, G-H=-2566/2562,
H-I=-2713/2493, I-J=-614/176
BOT CHORD C-P=-2448/2959, O-P=-2447/2966, E-O=-323/568, L-M=-1555/2024, L-AB=-1555/2024,
K-AB=-1555/2024, J-K=-2005/2333
WEBS D-P=0/329, D-O=-956/1052, M-O=-902/1445, F-O=-1231/1192, F-M=-676/668,
G-M=-619/919, G-K=-430/432, H-K=-252/527

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=630, J=594.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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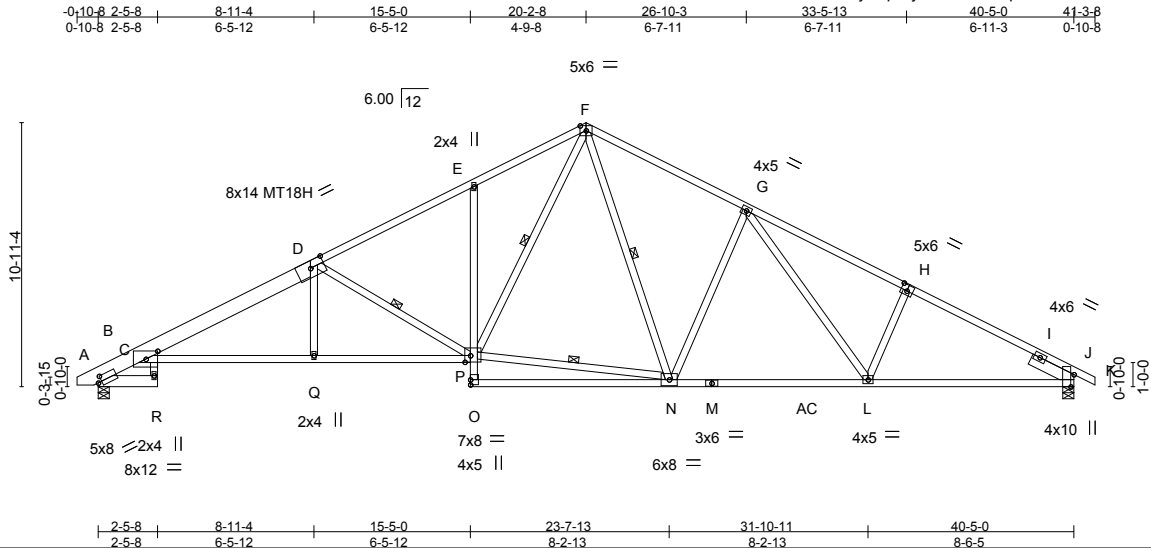
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485122
807184_MASTER	A16	ROOF SPECIAL	1	1		

Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:27 2017 Page 1
 ID:PFhEEKzMO6?Kz1KM4J4YUBYNvpB-jxIhDdaBKmqvQEB6KRf1Oe97VCNPUctvG8D0i6ywrwQ



Scale: 1/8"=1'

Plate Offsets (X,Y)--	[B:0-1-14,0-2-13], [C:0-5-13,0-4-0], [H:0-3-0,0-3-0], [J:0-6-1,Edge], [P:0-2-12,0-3-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.99	Vert(LL)	-0.32	L-N	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.96	Vert(TL)	-0.71	L-N	>679	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.75	Horz(TL)	0.39	J	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-S)	Wind(LL)	0.40	Q-X	>999		
								Weight: 259 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* A-D: 2x8 SP DSS, H-K: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2 *Except* B-R: 2x6 SP No.2, C-P,J-M: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt D-P, N-P, F-P, F-N
SLIDER Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) B=1663/0-5-8, J=1670/0-5-8
 Max Horz B=-253(LC 9)
 Max Uplift B=-630(LC 8), J=-667(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD C-D=-3275/2912, D-E=-2492/2397, E-F=-2431/2660, F-G=-2098/2275, G-H=-2560/2558,
 H-I=-2708/2489, I-J=-593/142
 BOT CHORD C-Q=-2400/2957, P-Q=-2399/2965, E-P=-323/569, M-N=-1517/2022, M-AC=-1517/2022,
 L-AC=-1517/2022, J-L=-1964/2327
 WEBS D-Q=0/329, D-P=-956/1046, N-P=-866/1444, F-P=-1223/1192, F-N=-683/667,
 G-N=-617/918, G-L=-427/427, H-L=-249/525

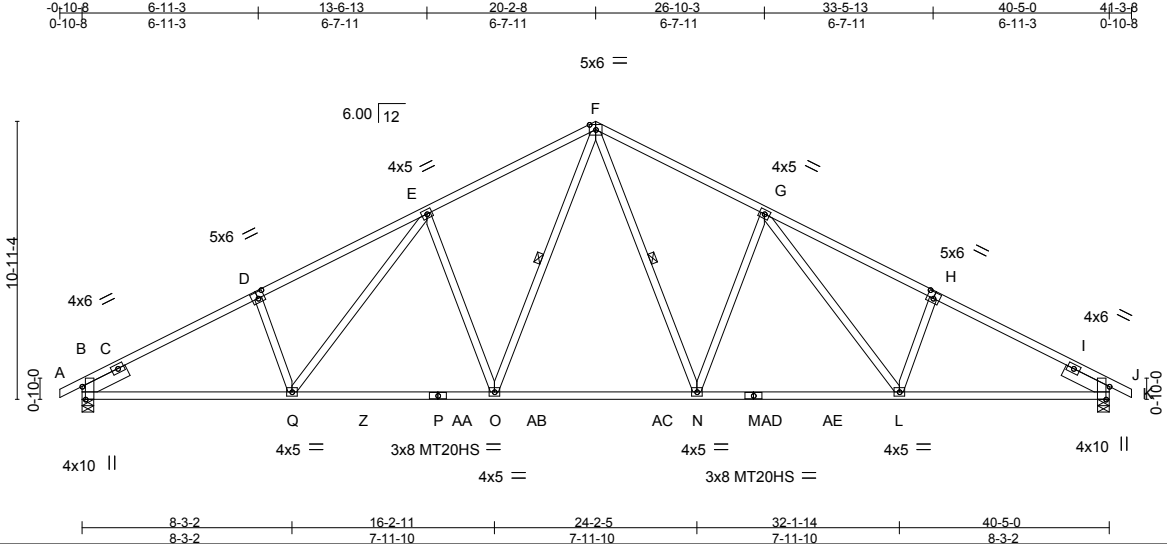
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=630, J=667.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485123
807184_MASTER	A17	Common	1	1		

Builders FirstSource, Sumter, SC 29153 7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:58:28 2017 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-B7J3Rzbp53ym2OmJu8AGxriJ7bi6D3S3UoyaFYyrvp



Scale = 1:90.7

Plate Offsets (X,Y)-- [B:0-6-1,Edge], [D:0-3-0-0-3-0], [H:0-3-0-0-3-0], [J:0-6-1,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.93	Vert(LL)	-0.28	L-N	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.99	Vert(TL)	-0.64	L-N	>757	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73	Horz(TL)	0.19	J	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.32	O-Q	>999		Weight: 233 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
A-D,H-K: 2x4 SP SS
BOT CHORD 2x4 SP No.1 *Except*
M-P: 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt F-N, F-O

REACTIONS. (lb/size) B=1669/0-5-8, J=1669/0-5-8
Max Horz B=255(LC 8)
Max Uplift B=667(LC 8), J=667(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-569/174, C-D=-2729/2486, D-E=-2614/2588, E-F=-2219/2321, F-G=-2219/2321,
G-H=-2614/2588, H-I=-2729/2486, I-J=-569/174
BOT CHORD B-Q=-1958/2351, Q-Z=-1514/2088, P-Z=-1514/2088, P-AA=-1514/2088, O-AA=-1514/2088,
O-AB=-913/1609, AB-AC=-913/1609, N-AC=-913/1609, N-AD=-1514/2088, M-AD=-1514/2088,
M-AE=-1514/2088, L-AE=-1514/2088, J-L=-1962/2351
WEBS F-N=-825/878, G-N=-616/914, G-L=-460/437, H-L=-249/534, F-O=-825/878, E-O=-616/914,
E-Q=-460/437, D-Q=-249/534

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=667, J=667.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



July 18, 2017

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485124
807184_MASTER	B01	Roof Special	1	1		

Builders FirstSource, Sumter, SC 29153 7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:29 2017 Page 1
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5x10 MT20HS = 5x10 MT20HS =

Scale = 1:97.9

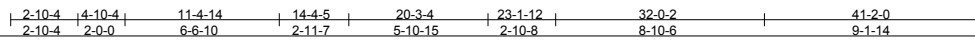
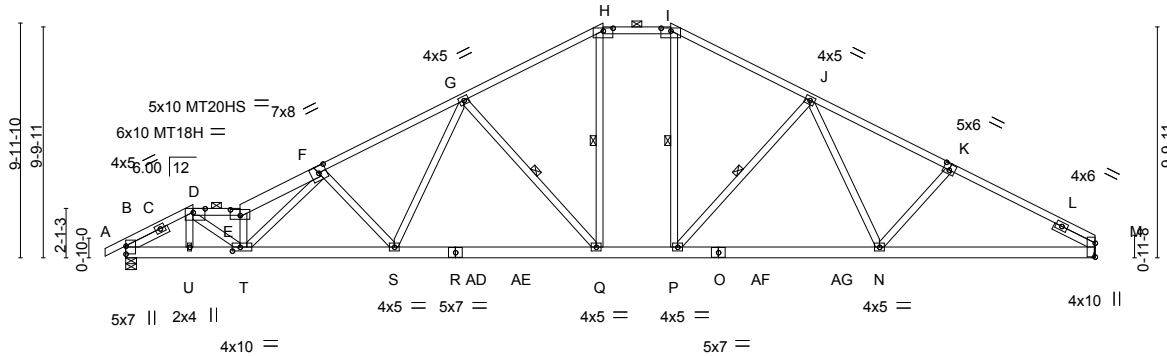


Plate Offsets (X,Y)-- [D:0-6-2,Edge], [E:0-5-0-0-2-15], [F:0-4-0-0-3-4], [H:0-5-0-0-1-7], [I:0-5-0-0-1-7], [K:0-3-0-0-3-0], [T:0-4-0-0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.99	Vert(LL) -0.26	Q-S	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.92	Vert(TL) -0.62	Q-S	>803	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.93	Horz(TL) 0.15	M	n/a	n/a	MT18H	244/190
BCDL 10.0	Code IRC2009/TPI2007	(Matrix-S)	Wind(LL) 0.35	Q-S	>999	240	Weight: 276 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
 E-F: 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-5-15 max.): D-E, H-I.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt G-Q, H-Q, I-P, J-P

REACTIONS. (lb/size) B=1700/0-5-8, M=1646/Mechanical
 Max Horz B=248(LC 8)
 Max Uplift B=682(LC 8), M=582(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1162/1027, C-D=-2578/2335, D-E=-4027/3618, E-F=-4368/3960, F-G=-3038/2843, G-H=-2106/2154, H-I=-1817/2035, I-J=-2105/2151, J-K=-2543/2431, K-L=-2729/2506, L-M=-673/222
 BOT CHORD B-U=-1996/2280, T-U=-2016/2302, S-T=-2675/3079, S-AD=-1859/2343, R-AD=-1859/2343, R-AE=-1859/2343, Q-AE=-1859/2343, P-Q=-1178/1817, O-P=-1671/2135, O-AF=-1671/2135, AF-AG=-1671/2135, N-AG=-1671/2135, M-N=-2037/2360
 WEBS D-U=-268/255, D-T=-1939/2242, E-T=-2249/2080, G-Q=-862/1023, H-Q=-623/701, I-P=-594/676, J-P=-584/738, J-N=-159/339, K-N=-215/471, F-S=-630/830, G-S=-596/770, F-T=-986/1141

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=682, M=582.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

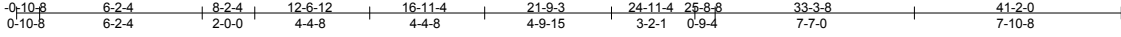
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485125
807184_MASTER	B02	ROOF SPECIAL	1	1		

Builders FirstSource, Sumter, SC 29153



Scale = 1:87.7

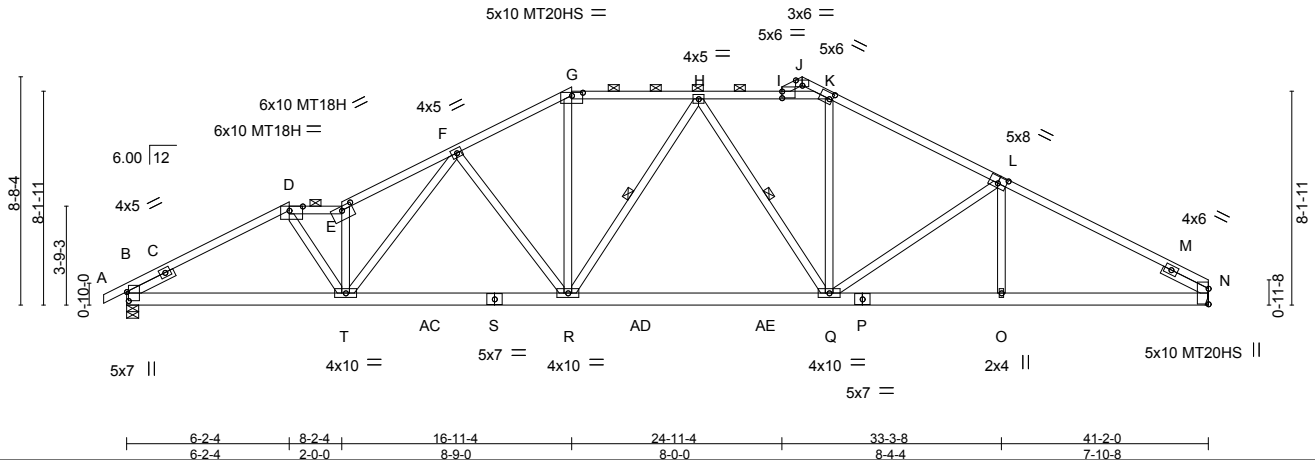


Plate Offsets (X,Y)-- [B:0-4-1,0-0-13], [D:0-6-2,Edge], [E:0-5-0,0-1-12], [G:0-5-0,0-1-7], [I:0-0-0,0-3-1], [J:0-3-0,Edge], [K:0-1-8,0-2-12], [L:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-1-8	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.83	Vert(LL)	-0.22	Q-R	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.97	Vert(TL)	-0.54	Q-R	>911	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.88	Horz(TL)	0.14	N	n/a	MT18H	244/190
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.32	R-T	>999		Weight: 270 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
A-D,L-N: 2x4 SP SS, E-G,J-L: 2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except*
N-P: 2x6 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except 2-0-0 oc purlins (3-1-5 max.): D-E, G-K.
BOT CHORD Rigid ceiling directly applied or 4-9-10 oc bracing.
WEBS 1 Row at midpt H-R, H-Q

REACTIONS. (lb/size) B=1806/0-5-8, N=1749/Mechanical
Max Horz B=224(LC 8)
Max Uplift B=690(LC 8), N=588(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD B-C=-1115/602, C-D=-3015/2674, D-E=-3331/3045, E-F=-3701/3465, F-G=-2588/2508,
G-H=-2258/2326, H-I=-2157/2263, I-K=-2154/2370, K-L=-2497/2368, L-M=-2862/2558,
M-N=-866/0
BOT CHORD B-T=-2199/2633, T-AC=-2120/2663, S-AC=-2120/2663, R-S=-2120/2663, R-AD=-1689/2313,
AD-AE=-1689/2313, Q-AE=-1689/2313, P-Q=-2039/2469, O-P=-2039/2469, N-O=-2037/2469
WEBS D-T=-1046/1323, E-T=-1864/1814, F-T=-934/992, F-R=-659/870, G-R=-757/887,
H-R=-281/229, L-Q=-419/627, K-Q=-519/718, H-Q=-458/311

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=690, N=588.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss B03	Truss Type ROOF SPECIAL	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485126
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:58:31 2017 Page 1
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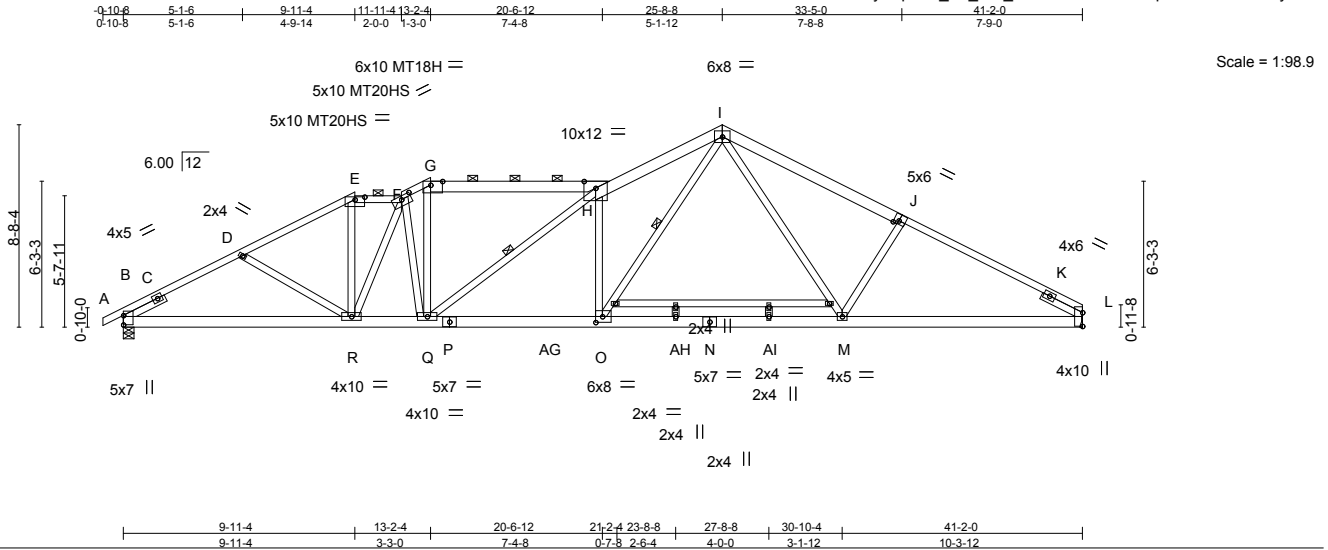


Plate Offsets (X,Y)-- [E:0-5-0-0-1-7], [F:0-5-0-0-1-12], [G:0-6-2-Edge], [J:0-2-8-0-1-12], [O:0-3-8-0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.78	Vert(LL)	-0.22	M-O	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.91	Vert(TL)	-0.84	M-O	>591	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.96	Horz(TL)	0.17	L	n/a	MT18H	244/190
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.36	M-O	>999	Weight: 302 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
G-H,H-I,I-J: 2x6 SP No.2, J-L: 2x4 SP SS
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (3-5-11 max.): E-F, G-H.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt H-Q, I-O

REACTIONS.

(lb/size) B=1775/0-5-8, L=1771/Mechanical
Max Horz B=219(LC 8)
Max Uplift B=667(LC 8), L=429(LC 9)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1035/537, C-D=-2951/2413, D-E=-2792/2233, E-F=-2456/2105, F-G=-2898/2439,
G-H=-2673/2287, H-I=-3840/3065, I-J=-2786/2210, J-K=-2990/2206, K-L=-681/43
BOT CHORD B-R=-1992/2564, Q-R=-1869/2750, P-Q=-2134/3383, P-AG=-2134/3383, O-AG=-2134/3383,
O-AH=-1214/2138, N-AH=-1214/2138, N-AI=-1214/2138, M-AI=-1214/2138, L-M=-1744/2575
WEBS D-R=-122/381, E-R=-531/837, F-R=-789/585, F-Q=-339/333, G-Q=-654/940, H-Q=-904/436,
I-O=-1707/2307, I-M=-375/652, J-M=-317/676, H-O=-1601/1680

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 25-8-8 from left end, supported at two points, 4-0-0 apart.
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=667, L=429.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIT/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss B05	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 2	H&H-NC/Dogwood/ Job Reference (optional)	130485128
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:33 2017 Page 1
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5x6 = Scale = 1:92.6

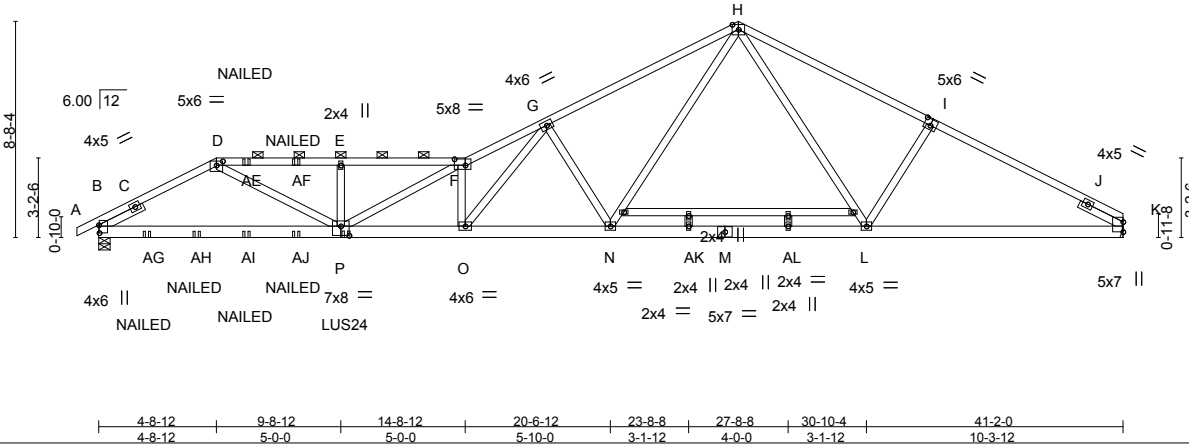


Plate Offsets (X,Y)-- [B:0-3-13,0-0-4], [D:0-3-0,0-2-0], [F:0-5-4,0-3-0], [I:0-3-0,0-3-0], [P:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.83	Vert(LL)	-0.25	O	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.77	Vert(TL)	-0.69	O	>721		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.45	Horz(TL)	0.12	K	n/a		
BCDL 10.0	Rep Stress Incr NO	(Matrix-M)	Wind(LL)	0.41	O	>999		
	Code IRC2009/TPI2007						Weight: 518 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-9-15 max.): D-F.
 BOT CHORD Rigid ceiling directly applied or 9-6-15 oc bracing.

REACTIONS.

(lb/size) B=2175/0-5-8, K=1871/Mechanical
 Max Horz B=221(LC 6)
 Max Uplift B=-1252(LC 6), K=-552(LC 7)

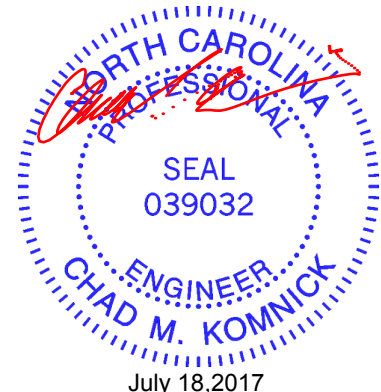
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD B-C=-1777/1067, C-D=-3594/1917, D-AE=-5707/2843, AE-AF=-5707/2843, E-AF=-5707/2843, E-F=-5707/2843, F-G=-7683/3240, G-H=-4168/1524, H-I=-3009/914, I-J=-3201/906, J-K=-1096/151
 BOT CHORD B-AG=-1786/3137, AG-AH=-1786/3137, AH-AI=-1786/3137, AI-AJ=-1786/3137, P-AJ=-1786/3137, O-P=-2843/6734, N-O=-1783/4644, N-AK=-618/2290, M-AK=-618/2290, M-AL=-618/2290, L-AL=-618/2290, K-L=-694/2778
 WEBS D-P=-1254/2952, E-P=-367/352, F-P=-1180/408, F-O=-2950/1540, G-O=-1868/3677, G-N=-2026/1251, H-N=-1023/2545, H-L=-197/656, I-L=-383/468

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 25-8-8 from left end, supported at two points, 4-0-0 apart.
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1252, K=552.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 9-11-4 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

6.0" NAIL SPACING 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIT/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/
807184_MASTER	B05	ROOF SPECIAL GIRDER	1	2	I30485128 Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITek Industries, Inc. Tue Jul 18 10:58:33 2017 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-Y56yUgfywcb289eGgimRevPBpCsjN4oe4gKwmywrvK

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-D=-60, D-F=-60, F-H=-60, H-K=-60, W-AA=-20
Concentrated Loads (lb)
Vert: P=-388(B) AG=-58(B) AH=-51(B) AI=-2(B) AJ=-2(B) AK=-100 AL=-100

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485129
807184_MASTER	B06	Roof Special	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:58:34 2017 Page 1
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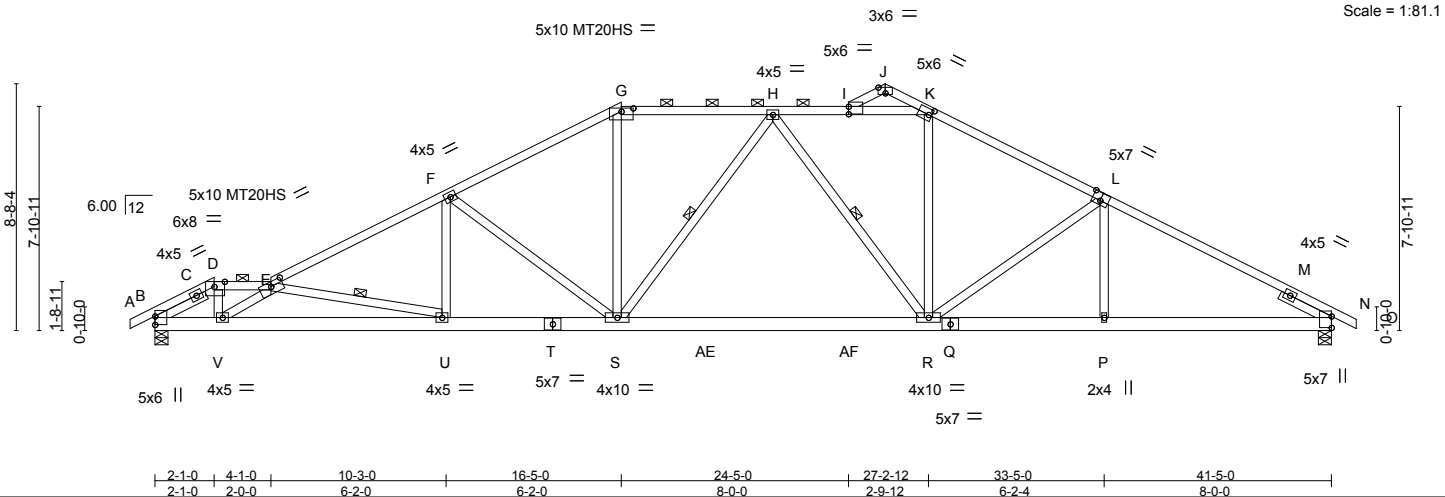


Plate Offsets (X,Y)--	[D:0-4-6,Edge], [E:0-5-0-0-1-14], [G:0-5-0-0-1-7], [I:0-0-0-0-3-3], [J:0-3-0,Edge], [K:0-1-8-0-2-8], [L:0-3-8-0-3-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.94	Vert(LL)	-0.25	R-S	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.89	Vert(TL)	-0.64	R-S	>771	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(TL)	0.14	N	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-S)	Wind(LL)	0.31	S	>999		
								Weight: 273 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-8-2 max.): D-E, G-K.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt E-U, H-S, H-R
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) B=1709/0-5-8, N=1709/0-5-8
 Max Horz B=-205(LC 9)
 Max Uplift B=-744(LC 8), N=-633(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-990/930, C-D=-2475/2094, D-E=-2305/1975, E-F=-3280/2902, F-G=-2547/2390,
 G-H=-2196/2249, H-I=-2098/2172, I-K=-2001/2124, K-L=-2423/2287, L-M=-2791/2496,
 M-N=-968/254
 BOT CHORD B-V=-1729/2177, U-V=-3672/4195, T-U=-2304/2856, S-T=-2304/2856, S-AE=-1648/2272,
 AE-AF=-1648/2272, R-AF=-1648/2272, Q-R=-1957/2412, P-Q=-1957/2412, N-P=-1955/2412
 WEBS D-V=-1010/1236, E-V=-2373/2309, E-U=-1373/1412, F-U=-268/486, F-S=-812/958,
 G-S=-626/780, L-R=-458/624, K-R=-530/703, H-R=-451/325

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=744, N=633.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum wallboard be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485130
807184_MASTER	B07	ROOF SPECIAL	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:35 2017 Page 1
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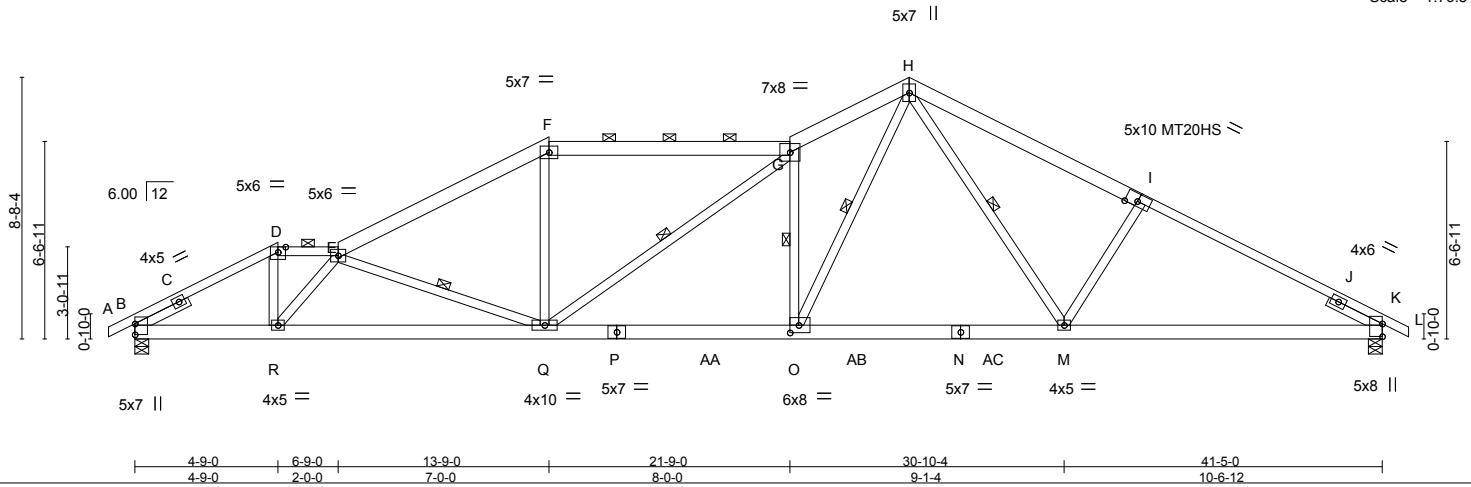


Plate Offsets (X,Y)-- [I:0-4-12,Edge], [O:0-3-8,0-3-0]

LOADING (psf)	SPACING-	2-1-8	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.24	M-O	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(TL)	-0.56	M-O	>881	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.85	Horz(TL)	0.14	K	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-M)	Wind(LL)	0.32	O	>999		
								Weight: 283 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
A-D: 2x4 SP No.1, D-E: 2x4 SP No.2, I-L: 2x4 SP SS
BOT CHORD 2x6 SP No.2 *Except*
B-P: 2x6 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-2 oc purlins, except 2-0-0 oc purlins (3-6-15 max.): D-E, F-G.
BOT CHORD Rigid ceiling directly applied or 4-4-13 oc bracing.
WEBS 1 Row at midpt E-Q, G-Q, G-O, H-O, H-M

REACTIONS. (lb/size) B=1816/0-5-8, K=1816/0-5-8
Max Horz B=216(LC 8)
Max Uplift B=-791(LC 8), K=-673(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1350/1004, C-D=-2976/2573, D-E=-2552/2321, E-F=-3084/2755, F-G=-2685/2629,
G-H=-3361/3316, H-I=-2780/2705, I-J=-2985/2702, J-K=-1128/293
BOT CHORD B-R=-2095/2616, Q-R=-3072/3626, P-Q=-2265/2981, P-AA=-2265/2981, O-AA=-2265/2981,
O-AB=-1448/2097, N-AB=-1448/2097, N-AC=-1448/2097, M-AC=-1448/2097, K-M=-2127/2583
WEBS D-R=-1044/1274, E-R=-1726/1652, E-Q=-990/1135, F-Q=-520/842, G-Q=-502/323,
G-O=-1641/1774, H-O=-1842/2045, H-M=-592/638, I-M=-404/745

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=791, K=673.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485131
807184_MASTER	B08	ROOF SPECIAL	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:36 2017 Page 1
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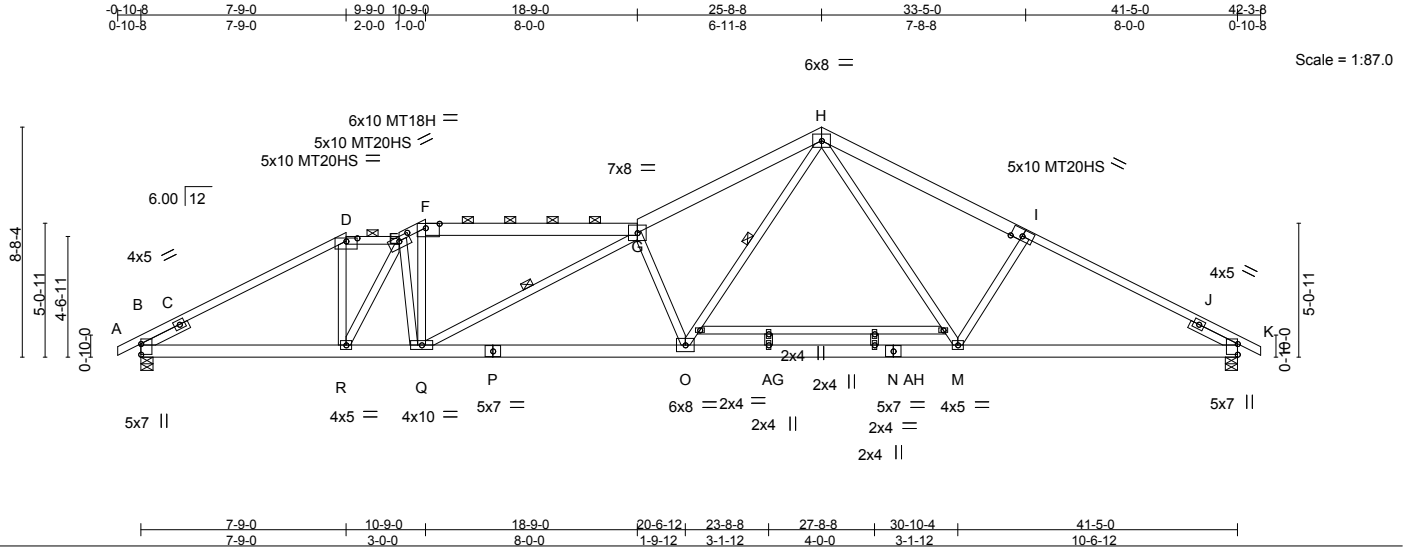


Plate Offsets (X,Y)--	[D:0-5-0-0-1-7], [E:0-5-0-0-1-14], [F:0-6-4-0-2-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.89	Vert(LL)	-0.23	M-O	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(TL)	-0.83	M-O	>600	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.95	Horz(TL)	0.16	K	n/a	MT18H	244/190
BCDL 10.0	Code IRC2009/TP12007		(Matrix-S)	Wind(LL)	0.36	O	>999		Weight: 290 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* A-D,I-L: 2x4 SP No.1, D-E,E-F: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-4-14 max.): D-E, F-G.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt H-O, G-Q
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) B=1785/0-5-8, K=1833/0-5-8
 Max Horz B=-203(LC 9)
 Max Uplift B=-669(LC 8), K=-509(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1087/217, C-D=-2960/2321, D-E=-2541/2195, E-F=-3231/2606, F-G=-2996/2486,
 G-H=-3888/2997, H-I=-2890/2277, I-J=-3080/2273, J-K=-1012/279
 BOT CHORD B-R=-1808/2574, Q-R=-2097/3050, P-Q=-2676/4010, O-P=-2676/4010, O-AG=-1197/2173,
 AG-AH=-1197/2173, N-AH=-1197/2173, M-N=-1197/2173, K-M=-1764/2664
 WEBS D-R=-518/952, E-R=-1127/681, F-Q=-540/905, G-O=-1717/1727, H-O=-1605/2283,
 H-M=-427/709, I-M=-349/694, G-Q=-1171/734

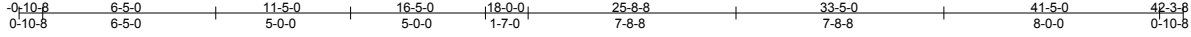
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 25-8-8 from left end, supported at two points, 4-0-0 apart.
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=669, K=509.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job 807184_MASTER	Truss B09	Truss Type ROOF SPECIAL	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485132
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:58:37 2017 Page 1
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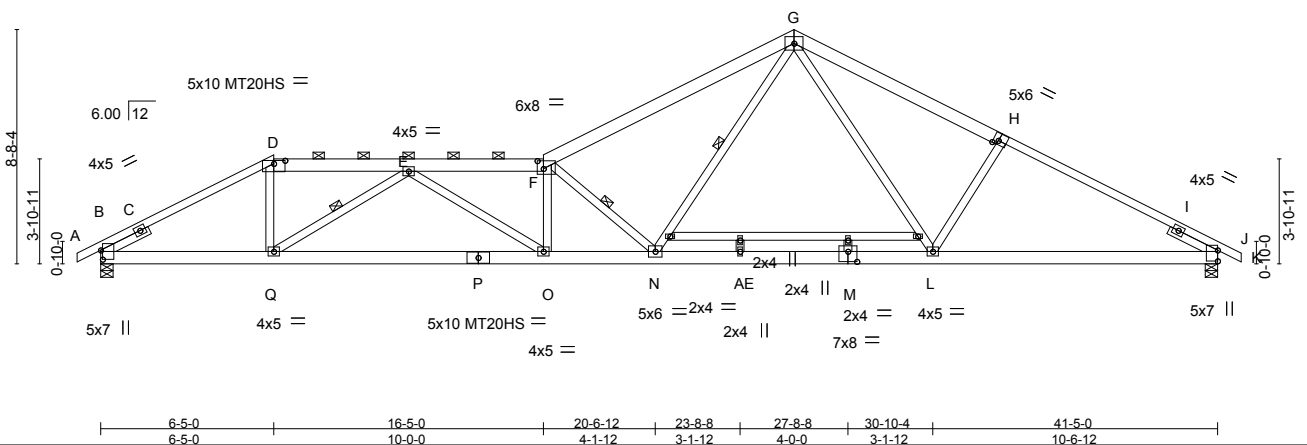


Plate Offsets (X,Y)-- [B:0-4-1,0-0-13], [D:0-5-0,0-1-7], [F:0-2-12,0-3-8], [H:0-2-4,0-1-12], [M:0-4-0,0-4-8]

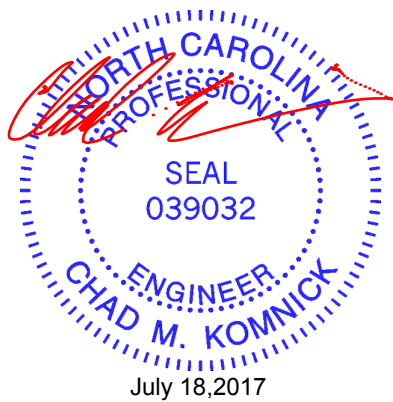
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.95	Vert(LL)	-0.27	O	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.95	Vert(TL)	-0.86	L-N	>577	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.89	Horz(TL)	0.16	J	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Wind(LL)	0.45	O	>999		
	Code IRC2009/TPI2007						Weight: 283 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* A-D: 2x4 SP No.2, H-K: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-1-8 max.): D-F.
BOT CHORD 2x6 SP No.1 *Except* B-P: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt E-Q, F-N, G-N
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) B=1785/0-5-8, J=1833/0-5-8
Max Horz B=203(LC 8)
Max Uplift B=669(LC 8), J=509(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1085/544, C-D=-3025/2324, D-E=-2603/2156, E-F=-5149/3996, F-G=-3853/2850,
G-H=-2887/2280, H-I=-3077/2275, I-J=-1024/263
BOT CHORD B-Q=-1847/2643, P-Q=-3040/4184, O-P=-3040/4184, N-O=-3650/5124, N-AE=-1226/2185,
M-AE=-1226/2185, L-M=-1226/2185, J-L=-1764/2662
WEBS D-Q=-663/1127, E-Q=-1907/1467, E-O=-757/1158, F-O=-565/469, F-N=-2340/2191,
G-N=-1405/2158, G-L=-396/704, H-L=-348/667

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 200.0lb AC unit load placed on the bottom chord, 25-8-8 from left end, supported at two points, 4-0-0 apart.
 - 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=669, J=509.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485133
807184_MASTER	B10	ROOF SPECIAL GIRDER	1	2		

Builders FirstSource, Sumter, SC 29153 7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:38 2017 Page 1
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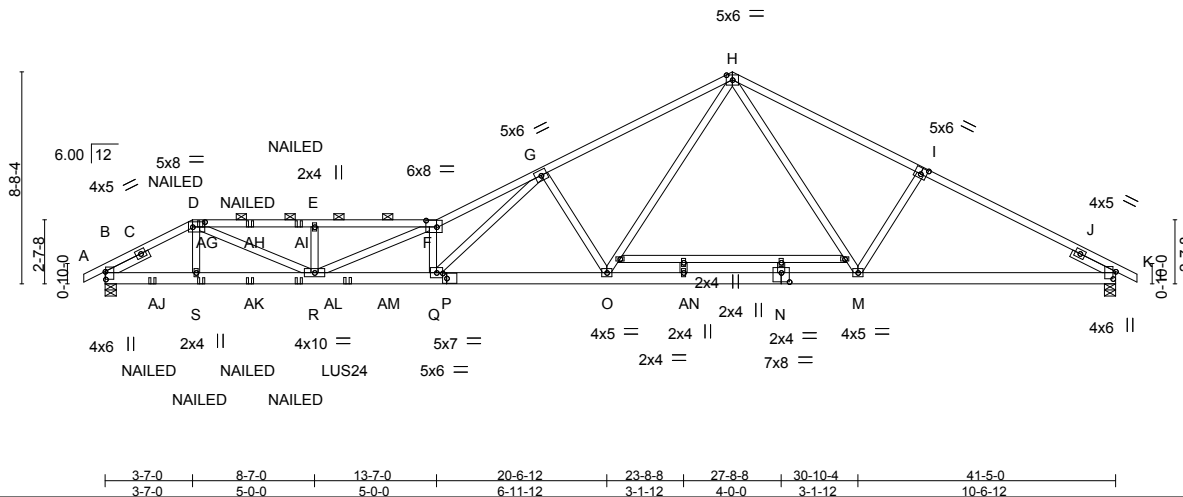


Plate Offsets (X,Y)--	[B:0-3-13.0-0-4], [D:0-6-0.0-2-8], [F:0-5-4.0-3-4], [I:0-3-0.0-3-0], [K:0-3-9.0-1-5], [N:0-4-0.0-4-8], [P:0-2-0.0-2-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.88	Vert(LL)	-0.34	Q	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.73	Vert(TL)	-0.90	O-Q	>550		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.64	Horz(TL)	0.10	K	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.52	Q	>948	Weight: 525 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2 *Except*	2-0-0 oc purlins (4-4-0 max.): D-F.
B-P: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-6-2 oc bracing.
WEBS 2x4 SP No.2	
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) B=2135/0-5-8, K=1930/0-5-8
 Max Horz B=-205(LC 18)
 Max Uplift B=-1066(LC 6), K=-601(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1810/845, C-D=-3417/1626, D-AG=-6524/2852, AG-AH=-6524/2852, AH-AI=-6524/2852, E-AI=-6524/2852, E-F=-6524/2852, F-G=-9407/3662, G-H=-4205/1407, H-I=-3090/878, I-J=-3289/870, J-K=-1419/201
 BOT CHORD B-AJ=-1523/2984, S-AJ=-1523/2984, S-AK=-1517/2973, AK-AL=-1517/2973, R-AL=-1517/2973, R-AM=-3184/8183, Q-AM=-3184/8183, P-Q=-1634/4712, O-P=-1634/4712, O-AN=-553/2323, N-AN=-553/2323, M-N=-553/2323, K-M=-645/2862
 WEBS D-R=-1523/3894, E-R=-358/343, F-R=-1820/515, F-Q=-3603/1635, G-Q=-2320/5192, G-O=-2039/1161, H-O=-917/2542, H-M=-208/715, I-M=-405/472

- NOTES-**
- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 3) Unbalanced roof live loads have been considered for this design.
 - 4) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 5) 200.0lb AC unit load placed on the bottom chord, 25-8-8 from left end, supported at two points, 4-0-0 apart.
 - 6) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 7) Provide adequate drainage to prevent water ponding.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1066, K=601.
 - 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 9-11-4 from the left end to connect truss(es) to back face of bottom chord.
 - 14) Fill all nail holes where hanger is in contact with lumber.



6.0 NAILER plates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE Mil-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIT/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485133
807184_MASTER	B10	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITek Industries, Inc. Tue Jul 18 10:58:38 2017 Page 2
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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-D=-60, D-F=-60, F-H=-60, H-L=-60, Y-AC=-20

Concentrated Loads (lb)

Vert: S=-2(B) N=-100 AJ=-51(B) AK=-2(B) AL=-2(B) AM=-390(B) AN=-100

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485134
807184_MASTER	B11	Roof Special	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:58:39 2017 Page 1
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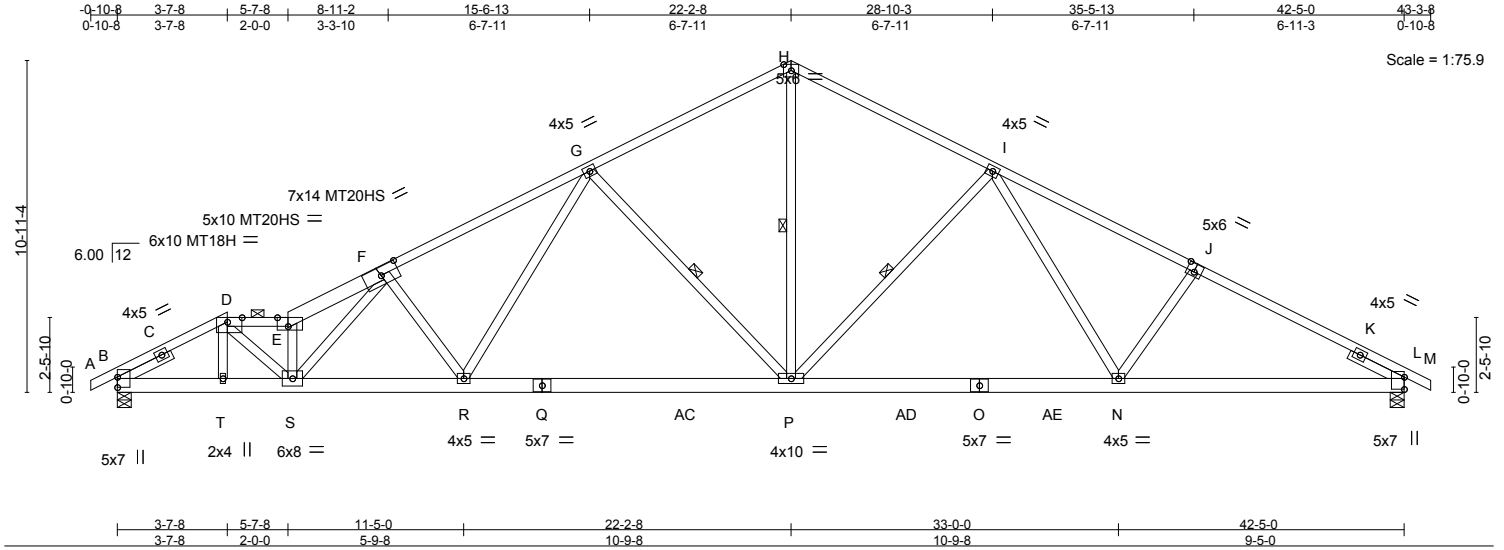


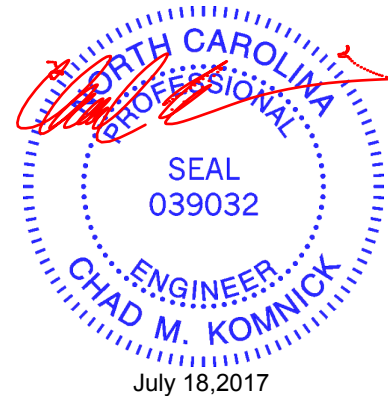
Plate Offsets (X,Y)-- [D:0-5-12,Edge]. [E:0-4-4,Edge]. [F:0-7-0-0-3-4]. [J:0-3-0-0-3-4]					
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.97	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.88	Vert(LL) -0.28 N-P >999 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.93	Vert(TL) -0.66 N-P >775 240	MT18H	244/190
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Horz(TL) 0.14 L n/a n/a	Weight: 278 lb	FT = 20%
	Code IRC2009/TPI2007		Wind(LL) 0.35 N-P >999 240		

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* E-F: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-6-12 max.): D-E.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt G-P, H-P, I-P
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) B=1749/0-5-8, L=1749/0-5-8
 Max Horz B=-255(LC 9)
 Max Uplift B=-711(LC 8), L=-689(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1269/1083, C-D=-2754/2503, D-E=-3914/3578, E-F=-4284/3940, F-G=-3158/3001,
 G-H=-2038/2140, H-I=-2039/2140, I-J=-2741/2645, J-K=-2916/2677, K-L=-982/554
 BOT CHORD B-T=-2074/2435, S-T=-2092/2452, R-S=-2676/3134, Q-R=-1798/2329, Q-AC=-1798/2329,
 P-AC=-1798/2329, P-AD=-1660/2175, O-AD=-1660/2175, O-AE=-1660/2175,
 N-AE=-1660/2175, L-N=-2145/2532
 WEBS D-T=-259/274, D-S=-1820/2073, E-S=-2224/2057, F-S=-923/1033, F-R=-651/881,
 G-R=-705/847, G-P=-873/1119, H-P=-1378/1434, I-P=-673/914, I-N=-347/472,
 J-N=-289/567

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=711, L=689.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

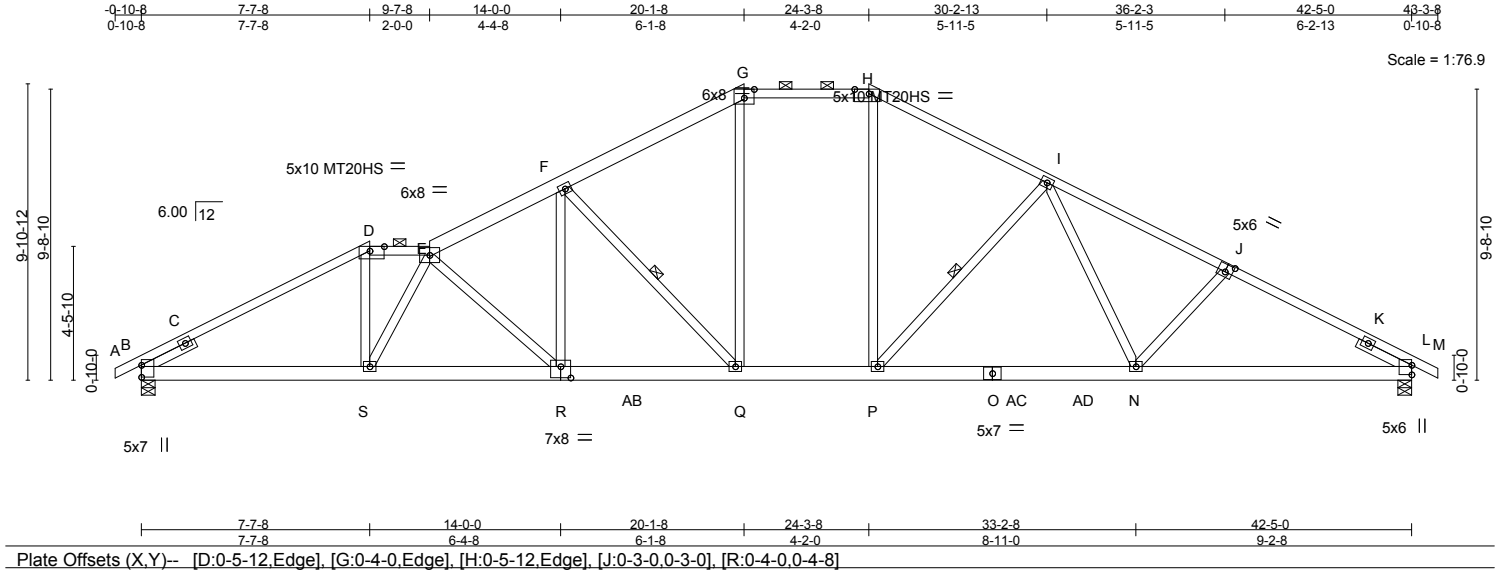


Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485135
807184_MASTER	B12	Roof Special	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:58:40 2017 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.84	Vert(LL)	-0.26	Q-R	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.88	Vert(TL)	-0.57	Q-R	>900	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.99	Horz(TL)	0.14	L	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Wind(LL)	0.34	Q-R	>999		
	Code IRC2009/TP12007						Weight: 286 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* A-D: 2x4 SP No.1, E-G: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-7-7 max.): D-E, G-H.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt F-Q, I-P
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) B=1749/0-5-8, L=1749/0-5-8
 Max Horz B=-230(LC 9)
 Max Uplift B=-694(LC 8), L=-669(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1022/383, C-D=-2907/2586, D-E=-2494/2414, E-F=-2892/2731, F-G=-2243/2247, G-H=-1938/2125, H-I=-2235/2250, I-J=-2729/2562, J-K=-2909/2651, K-L=-1022/629
 BOT CHORD B-S=-2048/2529, R-S=-2492/3033, R-AB=-1959/2550, Q-AB=-1959/2550, P-Q=-1231/1936, P-AC=-1734/2268, O-AC=-1734/2268, O-AD=-1734/2268, N-AD=-1734/2268, L-N=-2134/2529
 WEBS D-S=-770/1072, E-S=-1193/1013, E-R=-662/733, F-R=-473/693, F-Q=-994/1050, G-Q=-602/697, H-P=-591/722, I-P=-600/744, I-N=-188/374, J-N=-234/494

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 4x5 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=694, L=669.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job 807184_MASTER	Truss B13	Truss Type ROOF SPECIAL	Qty 1	Ply 1	H&H-NC/Dogwood/ 130485136
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:41 2017 Page 1

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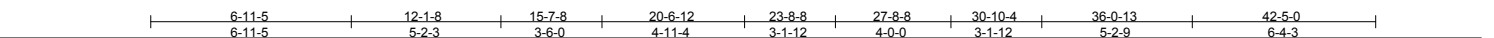
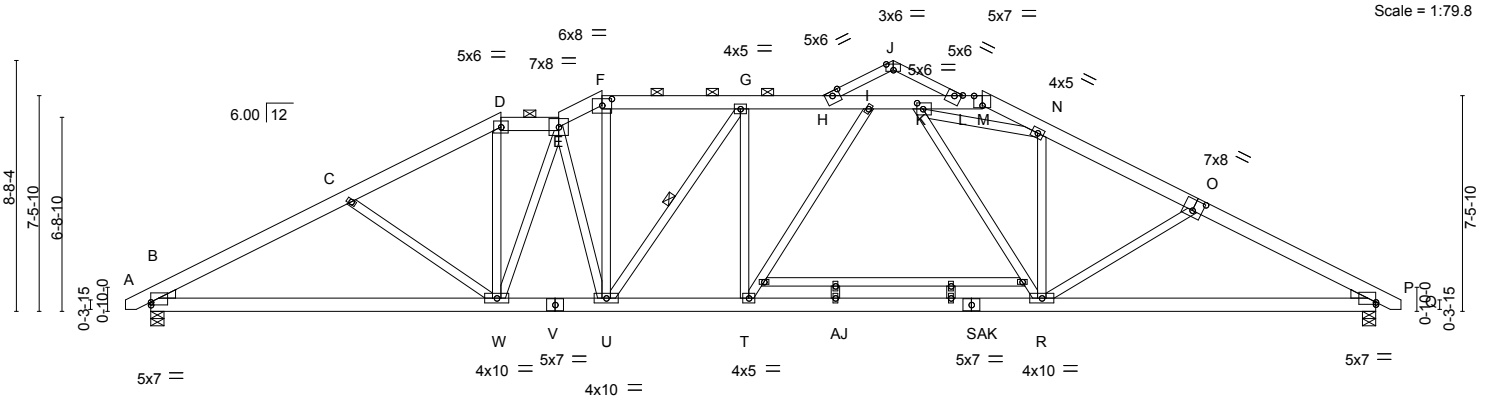
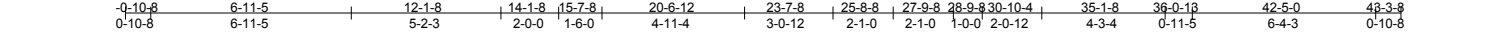


Plate Offsets (X,Y)-- [B:0-0-0-1-3], [F:0-4-0-0-2-12], [J:0-3-0-Edge], [K:0-2-8-0-2-8], [M:0-3-8-Edge], [O:0-4-0-0-4-8], [P:0-0-0-0-15]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.88	Vert(LL) -0.16	T	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.76	Vert(TL) -0.63	R-T	>810	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.78	Horz(TL) 0.15	P	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL) 0.27	R-T	>999	240	Weight: 350 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
H-J,J-L: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-10-8 max.): D-E, F-M.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt G-U

REACTIONS. (lb/size) B=1817/0-5-8, P=1859/0-5-8
Max Horz B=202(LC 8)
Max Uplift B=690(LC 8), P=546(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-3130/2557, C-D=-2842/2332, D-E=-2504/2204, E-F=-2740/2407, F-G=-2562/2294,
G-H=-2859/2380, H-I=-2672/2194, I-K=-2448/2094, K-L=-402/412, L-M=-562/589,
H-J=-214/278, J-L=-246/298, M-N=-599/601, N-O=-2962/2264, O-P=-3256/2522
BOT CHORD B-W=-2042/2692, V-W=-1723/2656, U-V=-1723/2656, T-U=-1711/2859, T-AJ=-1612/2635,
AJ-AK=-1612/2635, S-AK=-1612/2635, R-S=-1612/2635, P-R=-2028/2800
WEBS C-W=-234/529, D-W=-482/744, E-W=-472/379, E-U=-468/459, F-U=-670/839, G-U=-530/159,
G-T=-170/421, I-T=-187/584, K-R=-276/256, N-R=-149/571, O-R=-287/568,
K-N=-2078/1659

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 25-8-8 from left end, supported at two points, 4-0-0 apart.
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=690, P=546.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 18, 2017

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY A MiTek Affiliate 818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485137
807184_MASTER	B14	ROOF SPECIAL	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:58:42 2017 Page 1
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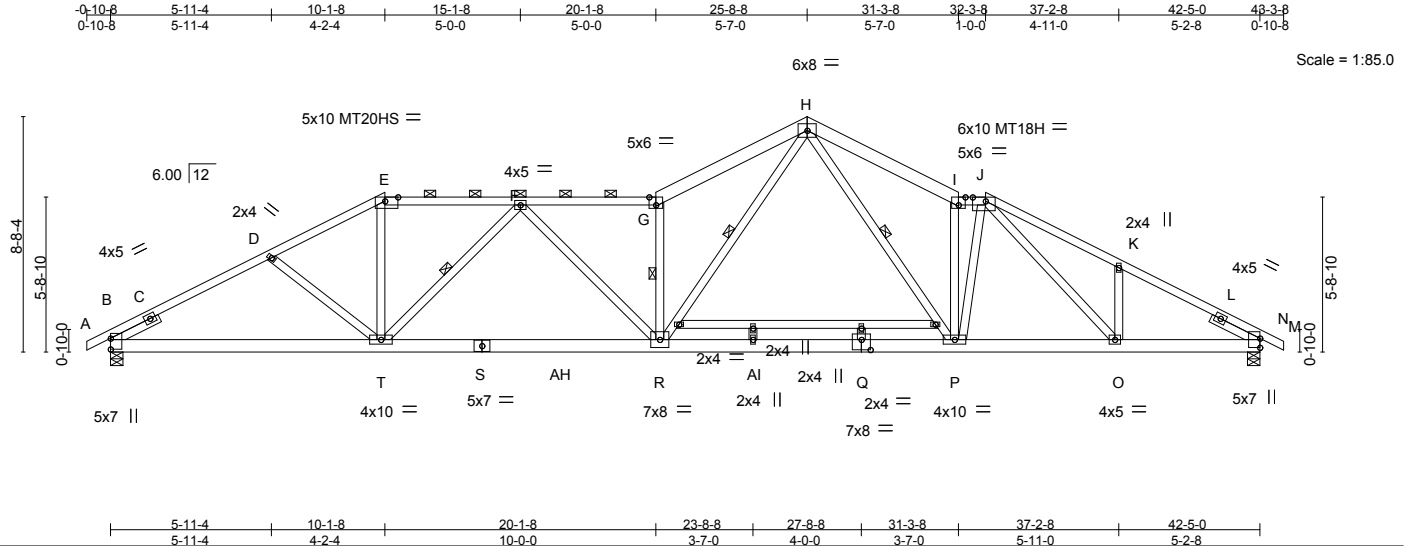


Plate Offsets (X,Y)-- [E:0-5-12,Edge], [G:0-3-0,Edge], [I:0-3-0,Edge], [J:0-5-12,0-1-12], [Q:0-4-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.89	Vert(LL)	-0.27	R-T	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.96	Vert(TL)	-0.90	P-R	>568	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(TL)	0.14	M	n/a	MT18H	244/190
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.43	R-T	>999		Weight: 305 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* G-H,H-I: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-7-10 max.): E-G, I-J.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* H-R,H-P: 2x4 SP No.2	WEBS 1 Row at midpt F-T, G-R, H-R, H-P
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) B=1828/0-5-8, M=1870/0-5-8
 Max Horz B=-203(LC 9)
 Max Uplift B=-678(LC 8), M=-535(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1035/436, C-D=-3059/2462, D-E=-2891/2328, E-F=-2555/2171, F-G=-3720/2829,
 G-H=-4156/3269, H-I=-3262/2610, I-J=-2907/2230, J-K=-2977/2532, K-L=-3038/2331,
 L-M=-1274/775
 BOT CHORD B-T=-1960/2656, S-T=-2204/3314, S-AH=-2204/3314, R-AH=-2204/3314, R-AI=-1287/2309,
 Q-AI=-1287/2309, P-Q=-1287/2309, O-P=-1628/2703, M-O=-1875/2649
 WEBS D-T=-121/368, E-T=-663/973, F-T=-1099/788, F-R=-171/585, G-R=-2127/1852,
 H-R=-1783/2449, H-P=-738/1036, I-P=-1500/1320, J-P=-498/1045, J-O=-368/41,
 K-O=-154/397

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 25-8-8 from left end, supported at two points, 4-0-0 apart.
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=678, M=535.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

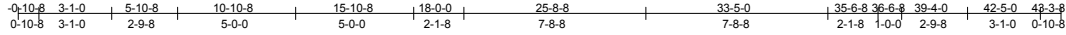


Job 807184_MASTER	Truss B15	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 2	H&H-NC/Dogwood/ Job Reference (optional)	130485138
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:43 2017 Page 1

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Scale = 1:97.6

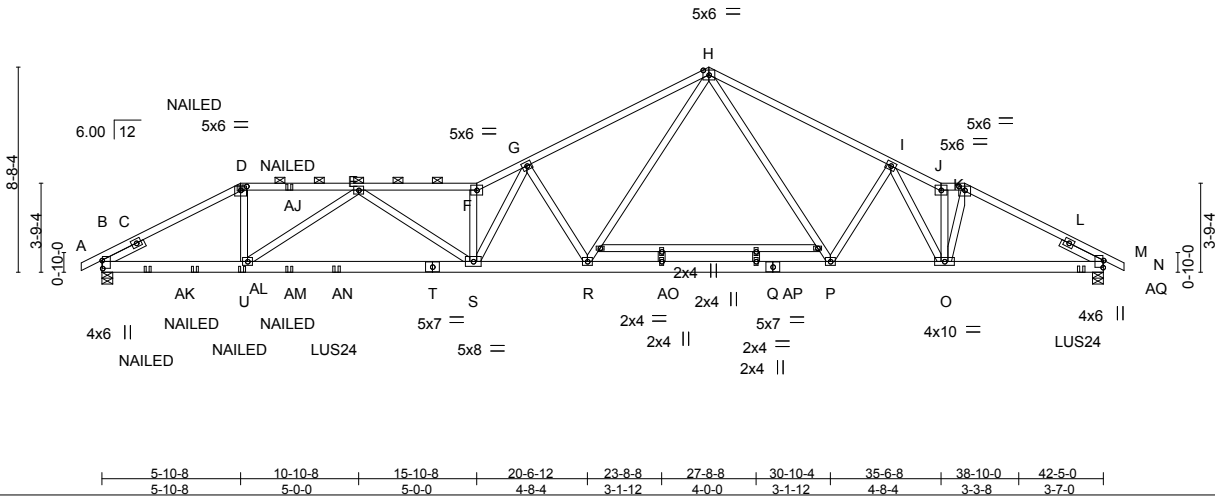


Plate Offsets (X,Y)-- [B:0-4-1-0-0-4], [D:0-3-0-0-2-0], [K:0-3-0-0-2-0], [M:0-3-9-0-0-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.85	Vert(LL)	-0.23	S-U	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.75	Vert(TL)	-0.67	S-U	>754		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.39	Horz(TL)	0.08	M	n/a		
BCDL 10.0	Rep Stress Incr NO	(Matrix-M)	Wind(LL)	0.43	S-U	>999	Weight: 566 lb	FT = 20%
	Code IRC2009/TPI2007							

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.1 *Except*
 Q-T: 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except*
 V-W,X-Y,Z-AA: 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-8-7 max.): D-F, J-K.
 BOT CHORD Rigid ceiling directly applied or 9-11-9 oc bracing.

REACTIONS.

(lb/size) B=2244/0-5-8, M=2328/0-5-8
 Max Horz B=-205(LC 7)
 Max Uplift B=-1365(LC 6), M=-822(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD B-C=-1864/966, C-D=-3859/2255, D-AJ=-3433/2092, E-AJ=-3433/2092, E-F=-6175/2706,
 F-G=-6988/3049, G-H=-4406/1698, H-I=-3487/1096, I-J=-3622/1164, J-K=-3239/1069,
 K-L=-3357/1073, L-M=-1834/413
 BOT CHORD B-AK=-2043/3367, AK-AL=-2043/3367, U-AL=-2043/3367, U-AM=-2607/5078,
 AM-AN=-2607/5078, T-AN=-2607/5078, S-T=-2607/5078, R-S=-2011/4957, R-AO=-709/2501,
 AO-AP=-709/2501, Q-AP=-709/2501, P-Q=-709/2501, O-P=-860/3272, O-AQ=-793/2932,
 M-AQ=-793/2932
 WEBS D-U=-783/1523, E-U=-2008/648, E-S=-168/1338, F-S=-3113/1351, G-S=-1621/2969,
 G-R=-2230/1431, H-R=-1113/2545, H-P=-261/989, I-P=-533/533, J-O=-1400/382,
 K-O=-318/1260

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 25-8-8 from left end, supported at two points, 4-0-0 apart.
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x5 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1365, M=822.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

3-Dimensional representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIT/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485138
807184_MASTER	B15	ROOF SPECIAL GIRDER	1	2		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:43 2017 Page 2
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NOTES-

- 14) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 31-6-8 oc max. starting at 9-11-4 from the left end to 41-5-12 to connect truss(es) to back face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-D=-60, D-F=-60, F-H=-60, H-J=-60, J-K=-60, K-N=-60, AB-AF=-20
Concentrated Loads (lb)
Vert: U=-3(B) AK=-60(B) AL=-51(B) AM=-3(B) AN=-390(B) AO=-100 AP=-100 AQ=-366(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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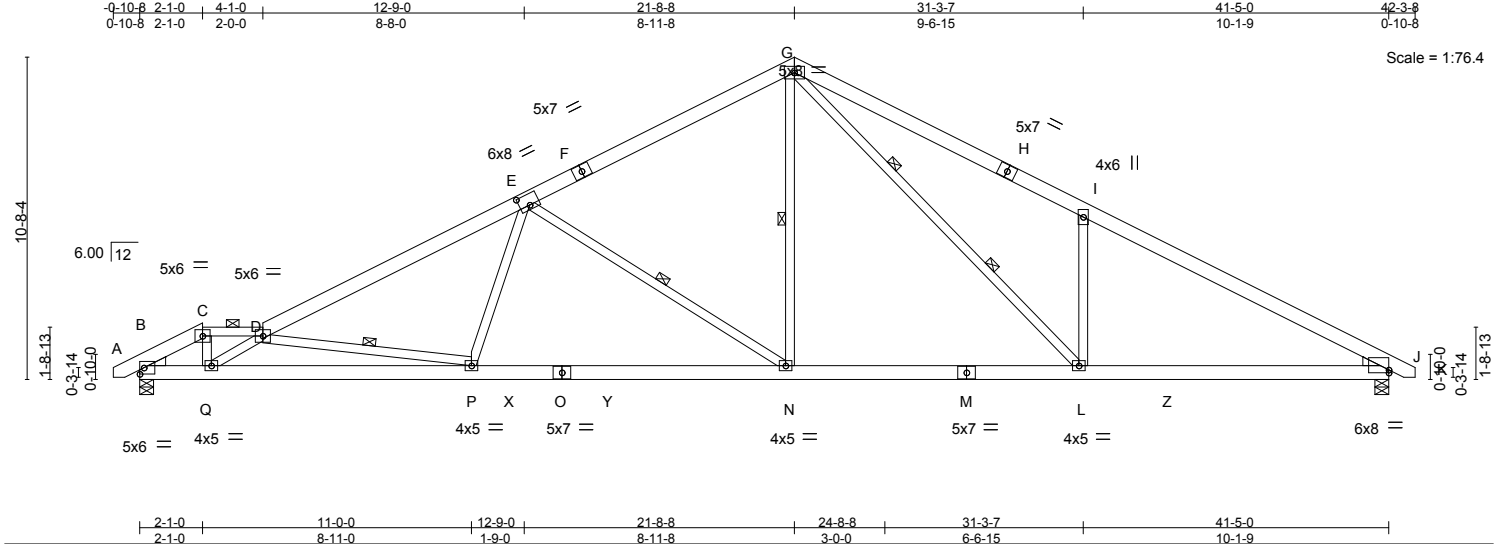
818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss B16	Truss Type ROOF SPECIAL	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485139
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:58:43 2017 Page 1

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.97	Vert(LL)	-0.22	L-N	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.99	Vert(TL)	-0.49	N-P	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.88	Horz(TL)	0.14	J	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.29	P-Q	>999		
								Weight: 290 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
C-D: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
G-L: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-8-9 max.): C-D.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt D-P, E-N, G-N
2 Rows at 1/3 pts G-L

REACTIONS. (lb/size) B=1698/0-5-8, J=1698/0-5-8
Max Horz B=243(LC 8)
Max Uplift B=681(LC 8), J=658(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2627/2231, C-D=-2401/2099, D-E=-3200/2856, E-F=-2104/2042, F-G=-1995/2085,
G-H=-2799/3107, H-I=-2913/3061, I-J=-2915/2554
BOT CHORD B-Q=-1857/2273, P-Q=-3875/4317, P-X=-2157/2629, O-X=-2157/2629, O-Y=-2157/2629,
N-Y=-2157/2629, M-N=-1052/1771, L-M=-1052/1771, L-Z=-1990/2504, J-Z=-1990/2504
WEBS D-P=-1556/1685, E-P=-237/660, E-N=-1079/1317, G-N=-613/941, G-L=-1371/1106,
I-L=-624/1121, C-Q=-1007/1198, D-Q=-2376/2368

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=681, J=658.
 - 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

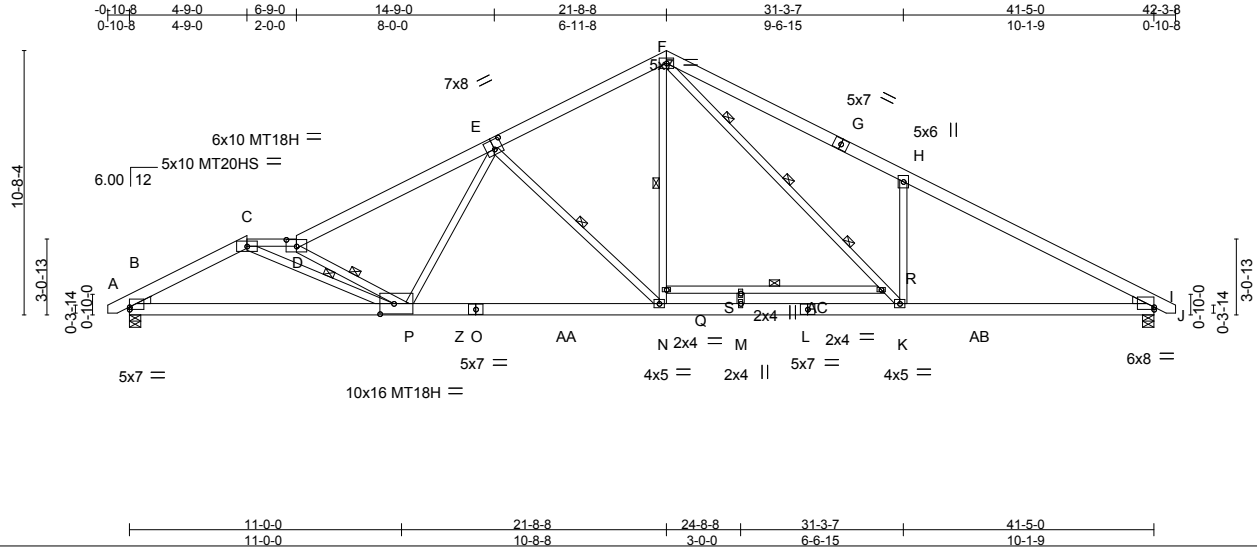


Job 807184_MASTER	Truss B17	Truss Type ROOF SPECIAL	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485140
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:58:44 2017 Page 1

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Scale = 1:93.1

Plate Offsets (X,Y)-- [B:0-0-0-0-1-3], [D:0-5-0-0-3-4], [E:0-4-0-0-4-8], [I:Edge,0-1-3], [P:0-6-12,0-5-0]					
LOADING (psf)	SPACING- 2-1-8	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.96	Vert(LL) -0.29 N-P >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.96	Vert(TL) -0.67 N-P >737 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 1.00	Horz(TL) 0.13 I n/a n/a	MT18H	244/190
BCDL 10.0	Code IRC2009/TPI2007	(Matrix-M)	Wind(LL) 0.39 N-P >999 240	Weight: 307 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* C-D: 2x4 SP No.1, G-J: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-0-5 oc purlins, except 2-0-0 oc purlins (2-3-12 max.): C-D.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 4-6-15 oc bracing.
WEBS 2x4 SP No.3 *Except* C-P,F-K: 2x4 SP No.2	WEBS 1 Row at midpt C-P, D-P, E-N, F-N, Q-R 3 Rows at 1/4 pts F-K

WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (lb/size) B=1804/0-5-8, I=1804/0-5-8
Max Horz B=258(LC 8)
Max Uplift B=723(LC 8), I=700(LC 9)

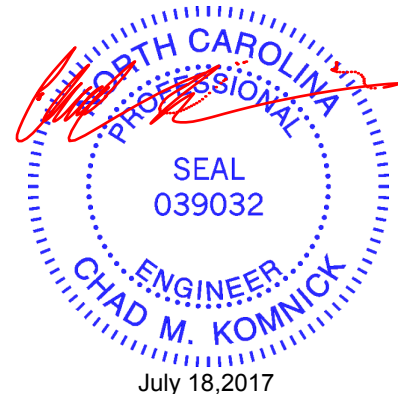
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-3202/2934, C-D=-5471/5155, D-E=-3291/2956, E-F=-2239/2256, F-G=-2990/3309,
G-H=-3113/3260, H-I=-3112/2714
BOT CHORD B-P=-2417/2790, P-Z=-1993/2570, O-Z=-1993/2570, O-AA=-1993/2570, N-AA=-1993/2570,
M-N=-1147/1930, L-M=-1147/1930, K-L=-1147/1930, K-AB=-2117/2674, I-AB=-2117/2674
WEBS C-P=-2667/2933, D-P=-3039/3137, E-P=-425/745, E-N=-973/1207, N-Q=-756/1037,
F-Q=-752/1088, F-R=-1466/1173, K-R=-1444/1154, H-K=-666/1208

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=723, I=700.
 - 9) Load case(s) 2, 3, 15, 16 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-64, C-D=-64, D-F=-64, F-J=-64, T-W=-31

Continued on page 2



July 18, 2017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/
807184_MASTER	B17	ROOF SPECIAL	1	1	I30485140

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:44 2017 Page 2
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LOAD CASE(S) Standard

- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-C=-53, C-D=-53, D-F=-53, F-J=-53, T-Z=-21, Z-AA=-53, K-AA=-21, K-AB=-53, W-AB=-21, Q-AC=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: A-C=-21, C-D=-21, D-F=-21, F-J=-21, T-W=-43, Q-AC=-40
- 15) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-C=-53, C-D=-53, D-F=-53, F-J=-21, T-Z=-21, Z-AA=-53, K-AA=-21, K-AB=-53, W-AB=-21, Q-AC=-30
- 16) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-C=-21, C-D=-21, D-F=-21, F-J=-53, T-Z=-21, Z-AA=-53, K-AA=-21, K-AB=-53, W-AB=-21, Q-AC=-30

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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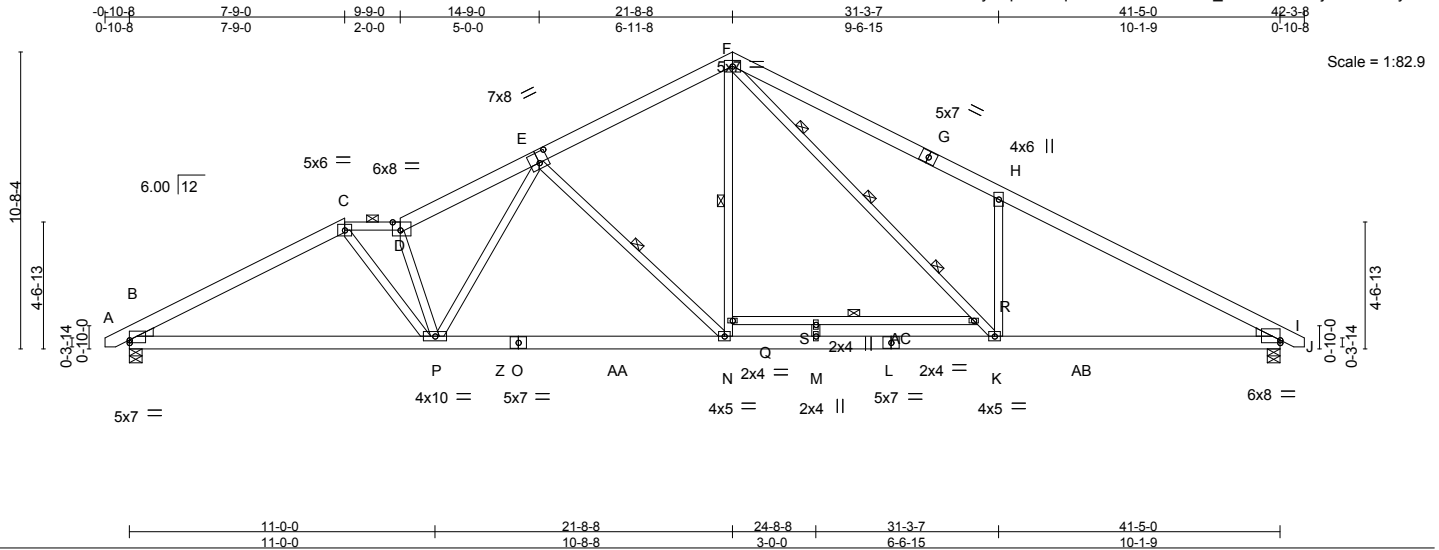
818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss B18	Truss Type ROOF SPECIAL	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485141
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:45 2017 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUBYNvpB-CPqU?noU5J5La?ZaND_F7RvEDSXFjrzOxazL3ywrv8



Scale = 1:82.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.84	Vert(LL)	-0.22	N-P	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.85	Vert(TL)	-0.51	N-P	>977		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.85	Horz(TL)	0.12	I	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.25	N-P	>999		
								Weight: 304 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
C-D: 2x4 SP No.2, G-J: 2x6 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
F-K: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-2 oc purlins, except 2-0-0 oc purlins (3-1-2 max.): C-D.
BOT CHORD Rigid ceiling directly applied or 5-1-0 oc bracing.
WEBS 1 Row at midpt E-N, F-N, Q-R
3 Rows at 1/4 pts F-K

REACTIONS. (lb/size) B=1698/0-5-8, I=1698/0-5-8
Max Horz B=243(LC 8)
Max Uplift B=681(LC 8), I=658(LC 9)
Max Grav B=1698(LC 1), I=1704(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2893/2585, C-D=-3284/3015, D-E=-3173/2969, E-F=-2110/2102, F-G=-2828/3110, G-H=-2943/3064, H-I=-2944/2553
BOT CHORD B-P=-2048/2489, P-Z=-1843/2412, O-Z=-1843/2412, O-AA=-1843/2412, N-AA=-1843/2412, M-N=-1078/1830, L-M=-1078/1830, K-L=-1078/1830, K-AB=-1991/2530, I-AB=-1991/2530
WEBS C-P=-914/1280, D-P=-1571/1526, E-P=-665/844, E-N=-889/1094, N-Q=-663/963, F-Q=-661/1024, F-R=-1379/1103, K-R=-1357/1085, H-K=-626/1132

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=681, I=658.
 - Load case(s) 2, 3, 15, 16 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-60, C-D=-60, D-F=-60, F-J=-60, T-W=-20



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485141
807184_MASTER	B18	ROOF SPECIAL	1	1		

Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:58:45 2017 Page 2
 ID:PFhEEkzM06?Kz1KM4J4YUBYNvpB-CPqU?noU5l5La?ZaND_F7RvEDSXFjirZoxazL3ywr8

LOAD CASE(S) Standard

- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-C=-50, C-D=-50, D-F=-50, F-J=-50, T-Z=-20, Z-AA=-50, K-AA=-20, K-AB=-50, W-AB=-20, Q-AC=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: A-C=-20, C-D=-20, D-F=-20, F-J=-20, T-W=-40, Q-AC=-40
- 15) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-C=-50, C-D=-50, D-F=-50, F-J=-20, T-Z=-20, Z-AA=-50, K-AA=-20, K-AB=-50, W-AB=-20, Q-AC=-30
- 16) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-C=-20, C-D=-20, D-F=-20, F-J=-50, T-Z=-20, Z-AA=-50, K-AA=-20, K-AB=-50, W-AB=-20, Q-AC=-30

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss B19	Truss Type ROOF SPECIAL	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485142
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:46 2017 Page 1
ID:PFhEEKzM06?Kz1KM4JYUBYNvpB-gbOsC7p6sbECC98mxwVUgeROzstkRAwidBJXtVywr7

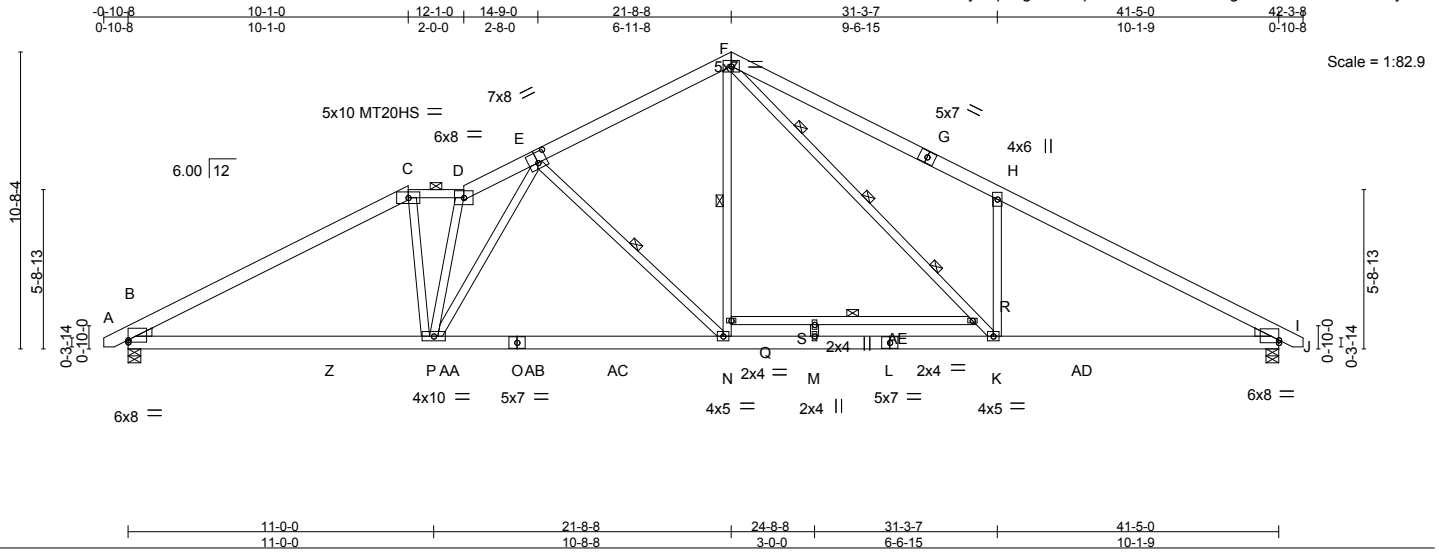


Plate Offsets (X,Y)-- [B:0-0-0-0-15], [E:0-4-0-0-4-8], [I:Edge,0-1-3]					
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.84	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.84	Vert(LL) -0.20 K-M >999 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.86	Vert(TL) -0.46 N-P >999 240		
BCDL 10.0	Rep Stress Incr NO	(Matrix-M)	Horz(TL) 0.12 I n/a n/a		
	Code IRC2009/TP12007		Wind(LL) 0.21 K-M >999 240	Weight: 305 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
A-C,G-J: 2x6 SP No.1, C-D: 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
F-K: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-14 oc purlins, except 2-0-0 oc purlins (3-7-8 max.): C-D.
BOT CHORD Rigid ceiling directly applied or 5-1-9 oc bracing.
WEBS 1 Row at midpt E-N, F-N, Q-R
3 Rows at 1/4 pts F-K

REACTIONS. (lb/size) B=1698/0-5-8, I=1698/0-5-8
Max Horz B=243(LC 8)
Max Uplift B=681(LC 8), I=658(LC 9)
Max Grav B=1723(LC 2), I=1723(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2956/2470, C-D=-2676/2468, D-E=-3301/3025, E-F=-2151/2098, F-G=-2867/3110, G-H=-2982/3063, H-I=-2984/2552
BOT CHORD B-Z=-1890/2533, Z-AA=-1890/2533, P-AA=-1890/2533, P-AB=-1848/2497, O-AB=-1848/2497, O-AC=-1848/2497, N-AC=-1848/2497, M-N=-1074/1864, L-M=-1074/1864, K-L=-1074/1864, K-AD=-1990/2565, I-AD=-1990/2565
WEBS C-P=-415/886, D-P=-1404/1181, E-P=-727/964, E-N=-902/1107, N-Q=-656/997, F-Q=-655/1037, F-R=-1385/1103, K-R=-1362/1086, H-K=-626/1131

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf, BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=681, I=658.
 - 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-60, C-D=-60, D-F=-60, F-J=-60, T-W=-20



July 18, 2017

Job 807184_MASTER	Truss B20	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 2	H&H-NC/Dogwood/ Job Reference (optional)	130485143
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:58:46 2017 Page 1

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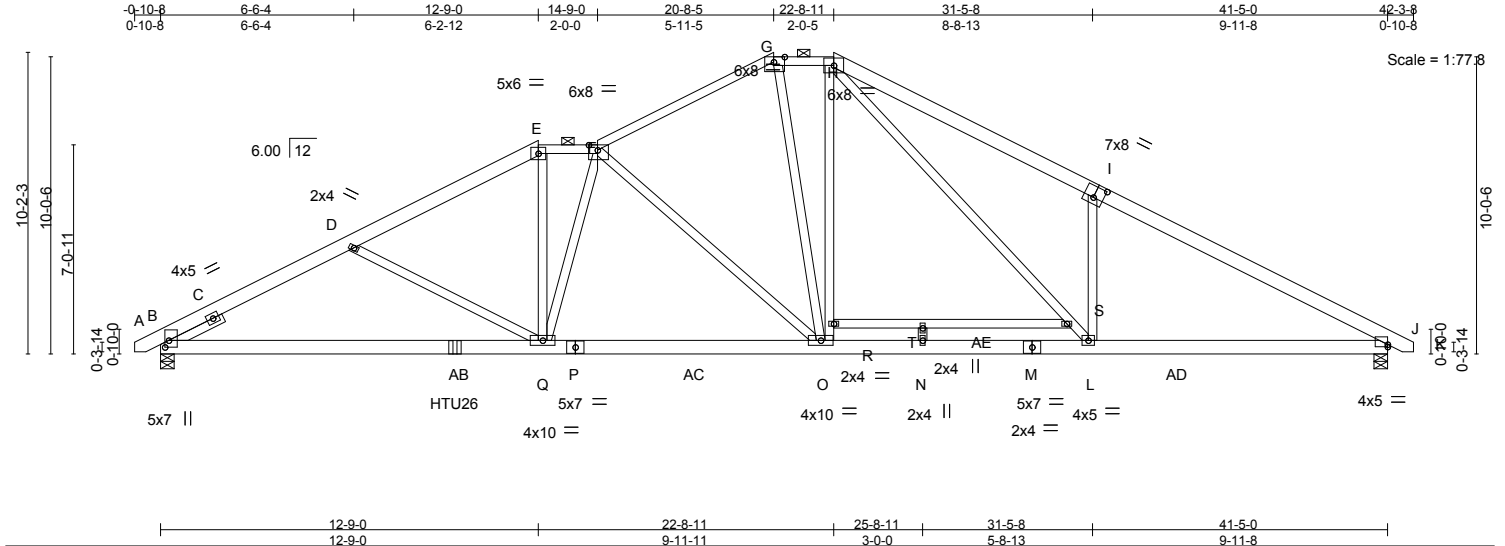


Plate Offsets (X,Y)-- [B:0-2-12,0-1-9], [F:0-3-10,Edge], [G:0-4-6,Edge], [I:0-4-0,0-4-8], [J:Edge,0-0-15]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.35	Vert(LL)	-0.10	Q-W	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(TL)	-0.31	Q-W	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.44	Horz(TL)	0.07	J	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-M)	Wind(LL)	0.28	Q-W	>999	240	Weight: 628 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* E-F,F-G,G-H: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): E-F, G-H.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
SLIDER Left 2x4 SP No.2 2-0-0	

REACTIONS. (lb/size) B=1965/0-5-8, J=1769/0-5-8
Max Horz B=236(LC 17)
Max Uplift B=1128(LC 6), J=783(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1936/1150, C-D=-3232/1853, D-E=-2923/1645, E-F=-2589/1564, F-G=-2123/1024, G-H=-1974/1026, H-I=-3025/1580, I-J=-3049/1266
BOT CHORD B-AB=-1732/2819, Q-AB=-1732/2819, P-Q=-1359/2667, P-AC=-1359/2667, O-AC=-1359/2667, N-O=-629/1951, M-N=-629/1951, L-M=-629/1951, L-AD=-929/2624, J-AD=-929/2624
WEBS D-Q=-325/412, E-Q=-504/959, F-Q=-306/392, F-O=-1153/1005, G-O=-405/795, O-R=-202/391, H-R=-207/416, H-S=-718/1009, L-S=-696/989, I-L=-568/645

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1128, J=783.
 - Load case(s) 2, 3, 13, 14 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 9-11-4 from the left end to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485143
807184_MASTER	B20	ROOF SPECIAL GIRDER	1	2		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITek Industries, Inc. Tue Jul 18 10:58:46 2017 Page 2
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LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-E=-60, E-F=-60, F-G=-60, G-H=-60, H-K=-60, U-Y=-20
 Concentrated Loads (lb)
 Vert: AB=-344(B)
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-E=-50, E-F=-50, F-G=-50, G-H=-50, H-K=-50, P-U=-20, P-AC=-50, L-AC=-20, L-AD=-50, Y-AD=-20, R-AE=-30
 Concentrated Loads (lb)
 Vert: AB=-331(B)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: A-E=-20, E-F=-20, F-G=-20, G-H=-20, H-K=-20, U-Y=-40, R-AE=-40
 Concentrated Loads (lb)
 Vert: AB=-248(B)
- 13) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-E=-50, E-F=-50, F-G=-50, G-H=-50, H-K=-20, P-U=-20, P-AC=-50, L-AC=-20, L-AD=-50, Y-AD=-20, R-AE=-30
 Concentrated Loads (lb)
 Vert: AB=-331(B)
- 14) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-E=-20, E-F=-20, F-G=-20, G-H=-50, H-K=-50, P-U=-20, P-AC=-50, L-AC=-20, L-AD=-50, Y-AD=-20, R-AE=-30
 Concentrated Loads (lb)
 Vert: AB=-331(B)

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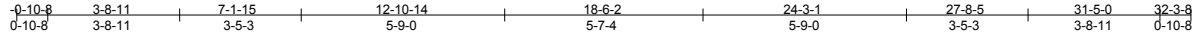
818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss C01	Truss Type Hip Girder	Qty 1	Ply 2	H&H-NC/Dogwood/ Job Reference (optional)	130485144
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:48 2017 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-c_WddorMNDUwRTI93LXyl3Xo5fdvvEr75vodyOywrV5



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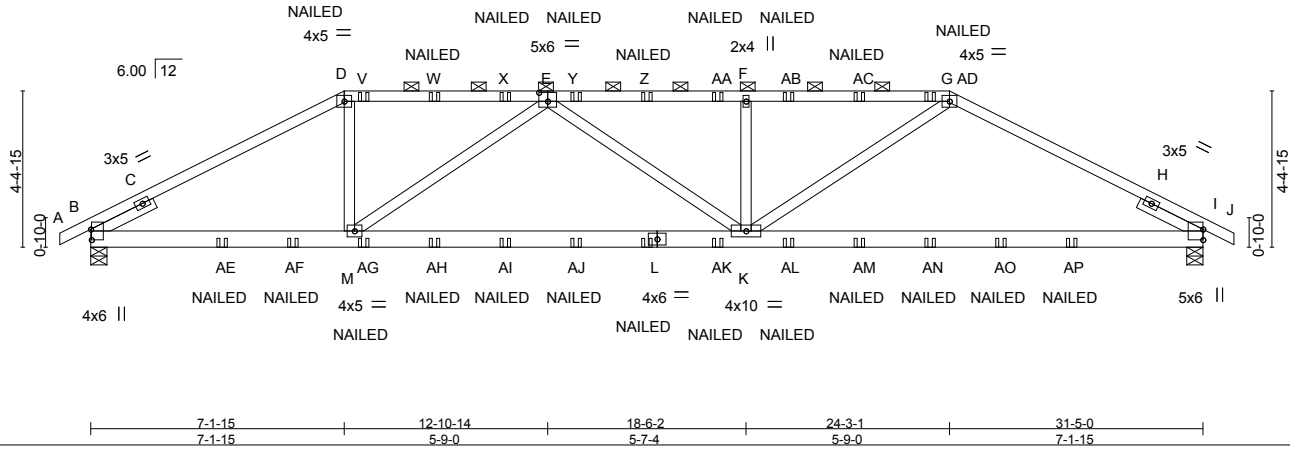


Plate Offsets (X,Y)-- [B:0-3-9-0-0-4], [E:0-3-0-0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.61	Vert(LL)	-0.11	K-T	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.60	Vert(TL)	-0.36	K-T	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.26	Horz(TL)	-0.05	I	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-M)	Wind(LL)	0.30	K-T	>999	240		
								Weight: 344 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): D-G.
 BOT CHORD Rigid ceiling directly applied or 8-10-8 oc bracing.

REACTIONS.

(lb/size) B=1806/0-5-8, I=1806/0-5-8
 Max Horz B=110(LC 6)
 Max Uplift B=1554(LC 6), I=1555(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

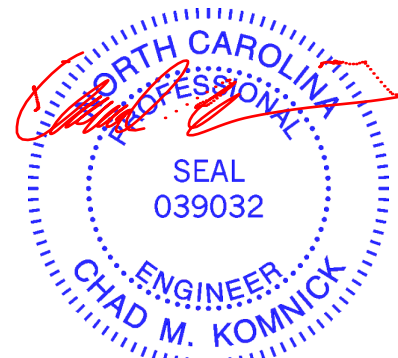
TOP CHORD B-C=-1507/1464, C-D=-2865/2626, D-V=-2517/2417, V-W=-2517/2417, W-X=-2517/2417, E-X=-2517/2417, E-Y=-3471/3407, Y-Z=-3471/3407, Z-AA=-3471/3407, F-AA=-3471/3407, F-AB=-3471/3407, AB-AC=-3471/3407, AC-AD=-3471/3407, G-AD=-3471/3407, G-H=-2634/2559, H-I=-1779/1543
 BOT CHORD B-AE=-2294/2484, AE-AF=-2294/2484, M-AF=-2294/2484, M-AG=-3243/3316, AG-AH=-3243/3316, AH-AI=-3243/3316, AI-AJ=-3243/3316, L-AJ=-3243/3316, L-AK=-3243/3316, K-AK=-3243/3316, K-AL=-2163/2353, AL-AM=-2163/2353, AM-AN=-2163/2353, AN-AO=-2163/2353, AO-AP=-2163/2353, I-AP=-2163/2353
 WEBS D-M=-831/911, E-M=-1062/1252, E-K=-125/322, F-K=-457/647, G-K=-1389/1415

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1554, I=1555.
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.

LOAD CASE(S) Standard

Continued on page 2



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485144
807184_MASTER	C01	Hip Girder	1	2		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITek Industries, Inc. Tue Jul 18 10:58:48 2017 Page 2
 ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-c_WddorMNDUwRTI93LXyl3Xo5fdvEr?5vodyOywrV5

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-D=-60, D-G=-60, G-J=-60, N-R=-20

Concentrated Loads (lb)

Vert: L=-21(B) V=-33(B) W=-33(B) X=-33(B) Y=-33(B) Z=-33(B) AA=-33(B) AB=-33(B) AC=-33(B) AD=-33(B) AE=-138(B) AF=-115(B) AG=-21(B) AH=-21(B) AI=-21(B) AJ=-21(B) AK=-21(B) AL=-21(B) AM=-21(B) AN=-21(B) AO=-115(B) AP=-138(B)

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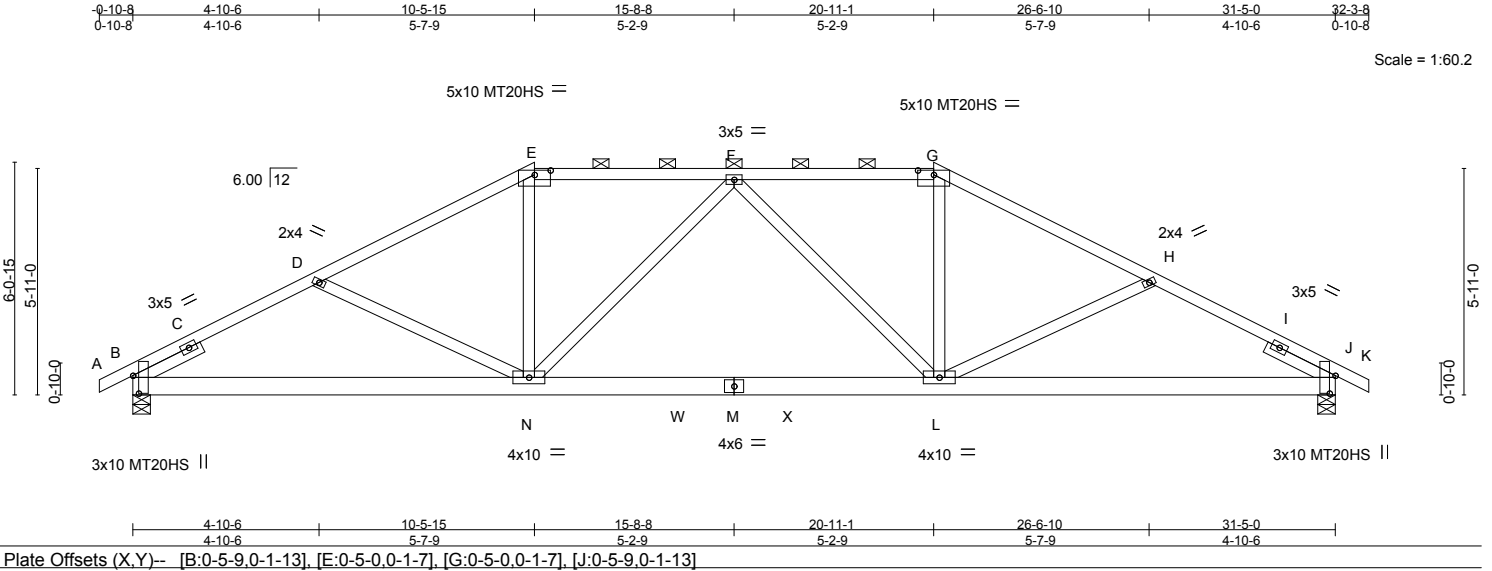


818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss C02	Truss Type Hip	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485145
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:48 2017 Page 1
ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-c_WddorMNDUwRTI93LXyl3XnCdmbvBe?5vodyOywrsv5



Scale = 1:60.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.67	Vert(LL) -0.18	L-N	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.61	Vert(TL) -0.40	L-N	>944	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.40	Horz(TL) 0.07	J	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix-S)	Wind(LL) 0.20	L-N	>999	240		Weight: 188 lb FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-5-2 max.): E-G.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) B=1309/0-5-8, J=1309/0-5-8
 Max Horz B=145(LC 8)
 Max Uplift B=-481(LC 8), J=-481(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-808/376, C-D=-2079/1927, D-E=-1862/1653, E-F=-1602/1601, F-G=-1602/1601, G-H=-1862/1653, H-I=-2079/1927, I-J=-808/375
 BOT CHORD B-N=-1521/1806, N-W=-1274/1770, M-W=-1274/1770, M-X=-1274/1770, L-X=-1274/1770, J-L=-1526/1806
 WEBS D-N=-231/498, E-N=-276/504, F-N=-350/294, F-L=-350/294, G-L=-276/504, H-L=-231/498

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=Ib) B=481, J=481.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum wallboard be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485146
807184_MASTER	C03	Hip	1	1		

Builders FirstSource, Sumter, SC 29153 7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:58:49 2017 Page 1

ID:PFhEEkzMO6?Kz1KM4J4YUBYNvpB-4A4?r8r_8Wcn3dsLc32BHH3xp3yueeB9JZYBUqyrvv4

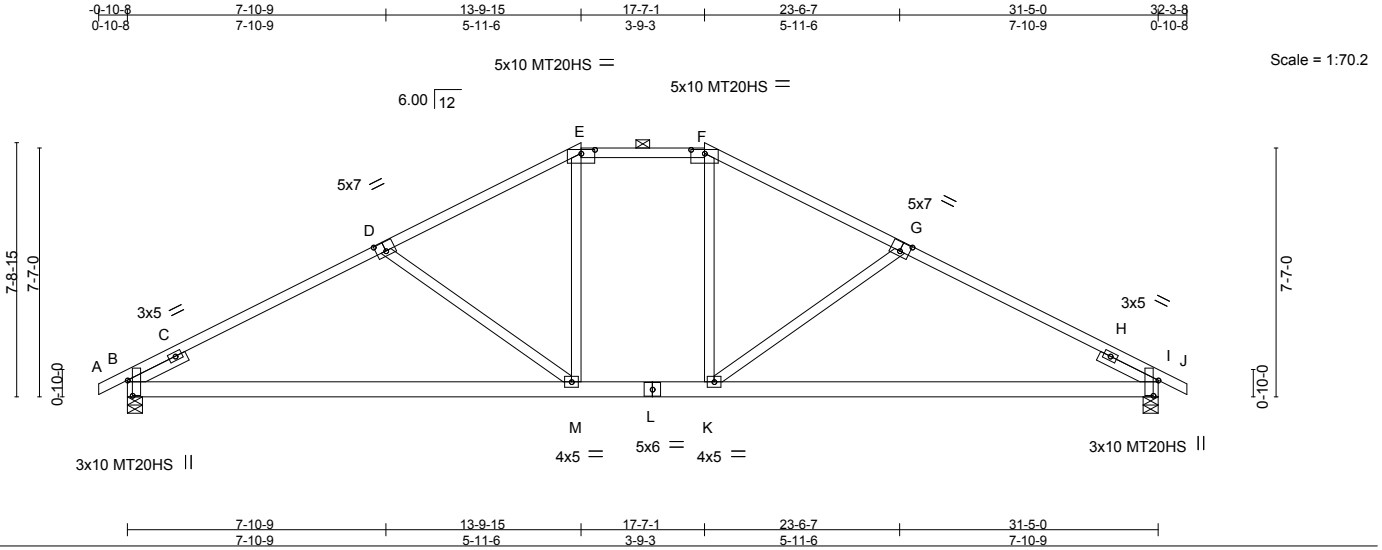


Plate Offsets (X,Y)-- [B:0-5-9,0-1-13], [D:0-3-8,0-3-4], [E:0-5-0,0-1-7], [F:0-5-0,0-1-7], [G:0-3-8,0-3-4], [I:0-5-9,0-1-13]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	-0.21	K-T	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(TL)	-0.53	K-T	>709	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.44	Horz(TL)	0.05	I	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.21	M-P	>999		
								Weight: 176 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-11-0 max.); E-F.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) B=1309/0-5-8, I=1309/0-5-8
Max Horz B=182(LC 8)
Max Uplift B=-518(LC 8), I=-518(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1158/0, C-D=-1895/1868, D-E=-1624/1576, E-F=-1372/1521, F-G=-1624/1576, G-H=-1895/1868, H-I=-1158/0
BOT CHORD B-M=-1402/1695, L-M=-829/1372, K-L=-829/1372, I-K=-1404/1695
WEBS D-M=-436/707, E-M=-319/442, F-K=-319/442, G-K=-436/707

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=518, I=518.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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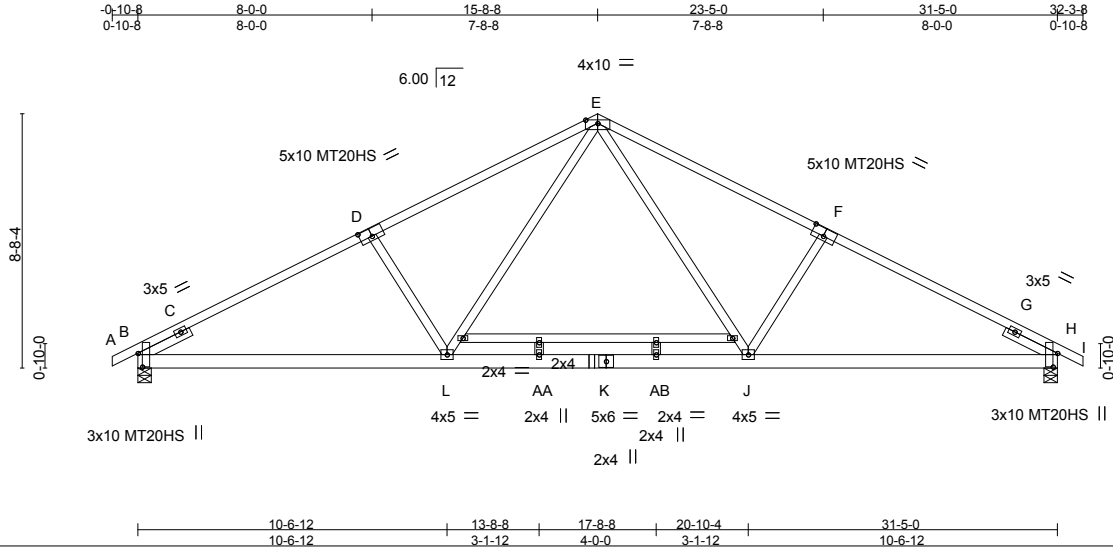
818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss C04	Truss Type COMMON	Qty 9	Ply 1	H&H-NC/Dogwood/ 130485147
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:50 2017 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-YMeN2UscvqkehmrXAmZQqUc4BTI4N_SlYDHk0Hywrv3



Scale = 1:78.7

Plate Offsets (X,Y)-- [B:0-5-9.0-1-13], [D:0-5-0.0-3-4], [F:0-5-0.0-3-4], [H:0-5-9.0-1-13]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.89	Vert(LL)	-0.11	J-L	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.62	Vert(TL)	-0.53	J-L	>712	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.89	Horz(TL)	0.08	H	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Wind(LL)	0.15	J-L	>999		
	Code IRC2009/TPI2007						Weight: 192 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) B=1409/0-5-8, H=1409/0-5-8

Max Horz B=205(LC 8)
 Max Uplift B=435(LC 8), H=435(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD B-C=-804/93, C-D=-2245/1657, D-E=-2045/1643, E-F=-2045/1643, F-G=-2245/1657, G-H=-804/93
 BOT CHORD B-L=-1224/1933, L-AA=-584/1340, K-AA=-584/1340, K-AB=-584/1340, J-AB=-584/1340, H-J=-1227/1933
 WEBS E-J=-487/780, F-J=-407/755, E-L=-487/780, D-L=-407/755

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 15-8.8 from left end, supported at two points, 4-0-0 apart.
- 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=435, H=435.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



July 18, 2017

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818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss C05	Truss Type COMMON	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485148
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:50 2017 Page 1
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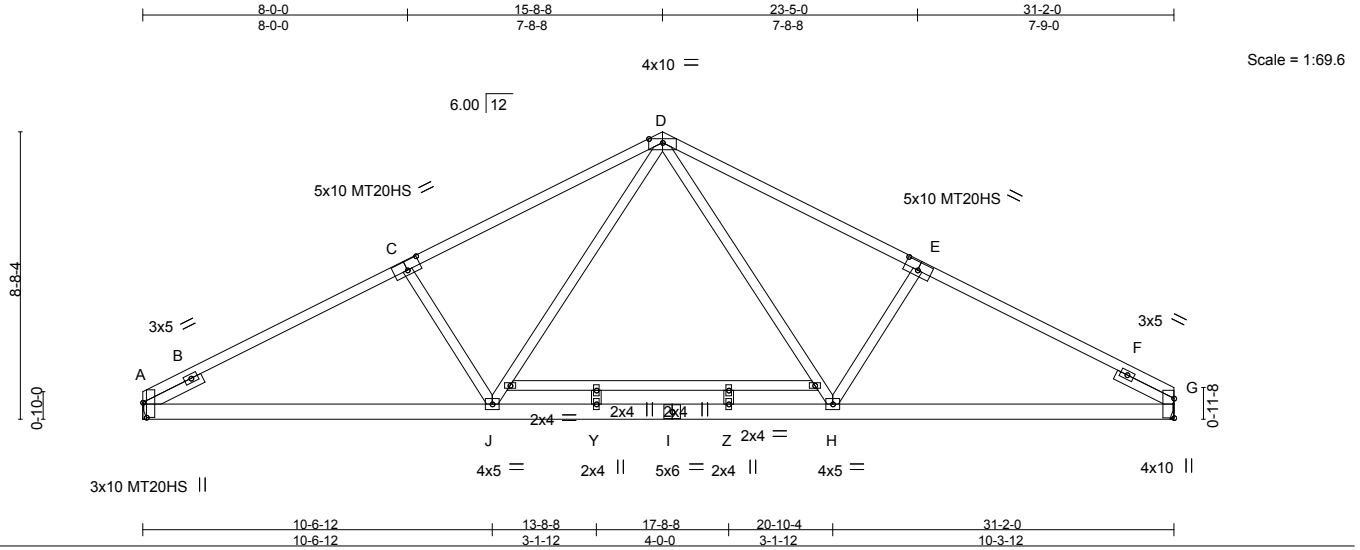


Plate Offsets (X,Y)-- [A:0-5-7,0-1-5], [C:0-5-0,0-3-4], [E:0-5-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.89	Vert(LL)	-0.12	H-J	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(TL)	-0.56	H-J	>671	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.91	Horz(TL)	0.09	G	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.17	H-J	>999		
								Weight: 188 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) A=1346/Mechanical, G=1347/Mechanical

Max Horz A=192(LC 7)
 Max Uplift A=-360(LC 8), G=-355(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD A-B=-808/101, B-C=-2231/1648, C-D=-2031/1633, D-E=-1990/1602, E-F=-2183/1615, F-G=-578/0
 BOT CHORD A-J=-1267/1921, J-Y=-619/1321, I-Y=-619/1321, I-Z=-619/1321, H-Z=-619/1321, G-H=-1232/1875
 WEBS C-J=-408/755, D-J=-496/790, D-H=-444/733, E-H=-389/738

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 15-8-8 from left end, supported at two points, 4-0-0 apart.
- 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=360, G=355.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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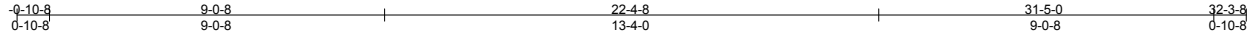
818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss C06	Truss Type GABLE	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485149
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:52 2017 Page 1

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Scale = 1:62.2

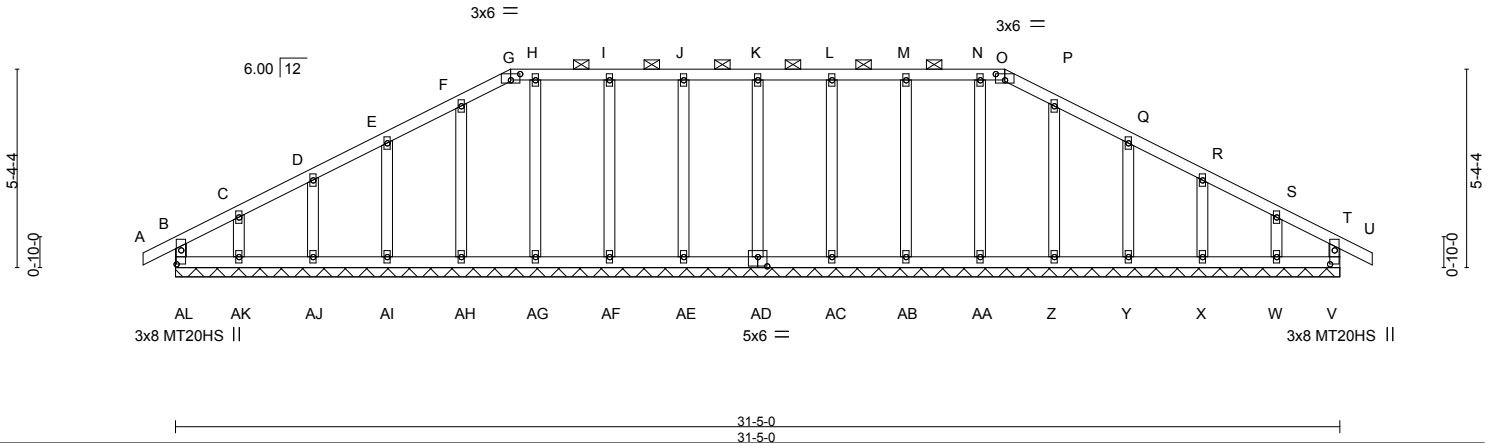


Plate Offsets (X,Y)-- [G:0-3-0-0-2-0], [O:0-3-0-0-2-0], [V:0-4-8-0-1-8], [AD:0-3-0-0-3-0], [AL:0-4-8-0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	-0.00	U	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(TL)	-0.00	U	n/r	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(TL)	0.01	V	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						
								Weight: 182 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): G-O.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 31-5-0.
(lb) - Max Horz AL=-161(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) V, AG, AA except AL=-115(LC 6), AD=-127(LC 6), AE=-124(LC 7), AF=-142(LC 6), AH=-122(LC 8), AI=-185(LC 8), AJ=-157(LC 8), AK=-219(LC 8), AC=-123(LC 6), AB=-139(LC 7), Z=-116(LC 9), Y=-186(LC 9), X=-161(LC 9), W=-198(LC 9)
Max Grav All reactions 250 lb or less at joint(s) AL, V, AD, AE, AF, AG, AH, AI, AJ, AK, AC, AB, AA, Z, Y, X, W

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD E-F=-28/269, F-G=-28/345, G-H=-2/344, H-I=-2/344, I-J=-2/344, J-K=-2/344, K-L=-2/344, L-M=-2/344, M-N=-2/344, N-O=-2/344, O-P=-28/345, P-Q=-28/269

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) V, AG, AA except (jt=lb) AL=115, AD=127, AE=124, AF=142, AH=122, AI=185, AJ=157, AK=219, AC=123, AB=139, Z=116, Y=186, X=161, W=198.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

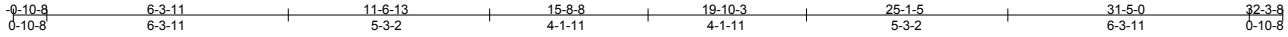


Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485150
807184_MASTER	C07	Hip	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:52 2017 Page 1

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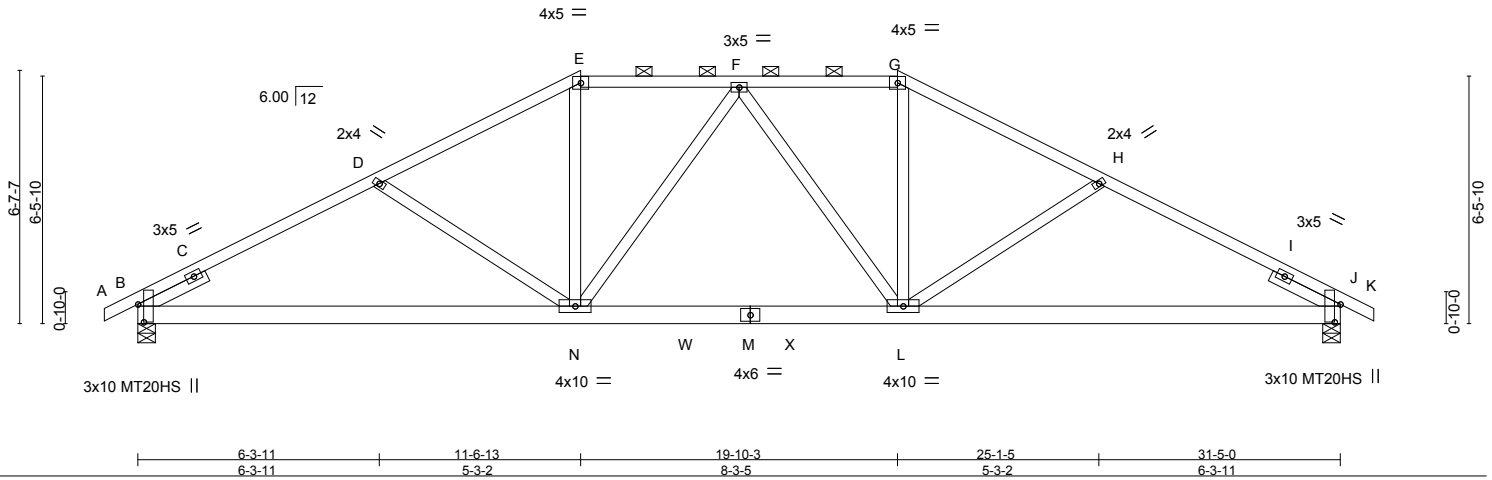


Plate Offsets (X,Y)-- [B:0-5-9,0-1-13], [J:0-5-9,0-1-13]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.56	Vert(LL)	-0.13	L-N	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.53	Vert(TL)	-0.26	N-Q	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.30	Horz(TL)	0.07	J	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-S)	Wind(LL)	0.16	L-N	>999		
								Weight: 190 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-7-15 max.); E-G.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) B=1309/0-5-8, J=1309/0-5-8

Max Horz B=157(LC 8)
 Max Uplift B=-494(LC 8), J=-494(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD B-C=-963/220, C-D=-2034/1888, D-E=-1771/1641, E-F=-1519/1574, F-G=-1519/1574, G-H=-1771/1641, H-I=-2034/1888, I-J=-963/220
 BOT CHORD B-N=-1455/1760, N-W=-1105/1615, M-W=-1105/1615, M-X=-1105/1615, L-X=-1105/1615, J-L=-1458/1760
 WEBS D-N=-291/552, E-N=-337/494, F-N=-283/222, F-L=-283/221, G-L=-337/494, H-L=-291/552

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=B) B=494, J=494.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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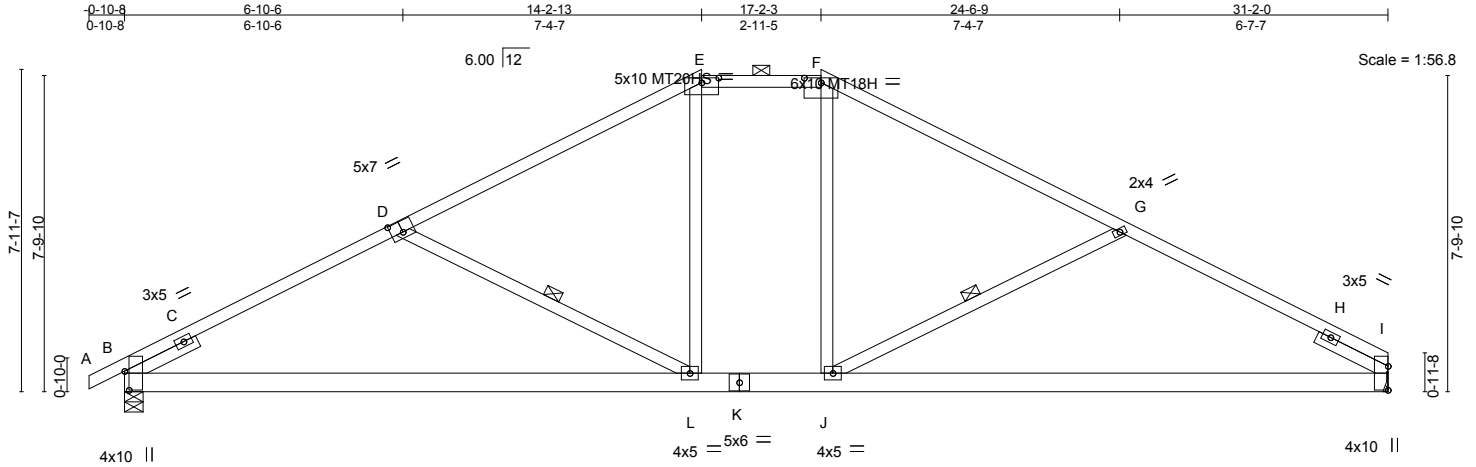
818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss C08	Truss Type Hip	Qty 1	Ply 1	H&H-NC/Dogwood/ 130485151
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:53 2017 Page 1

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6-10-6 6-10-6	14-2-13 7-4-7	17-2-3 2-11-5	24-6-9 7-4-7	31-2-0 6-7-7
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Plate Offsets (X,Y)-- [B:0-5-9.0-1-5], [D:0-3-8.0-3-4], [E:0-5-0.0-1-7], [F:0-5-0.0-1-7]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.89	Vert(LL) -0.22	L-S	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(TL) -0.57	L-S	>651	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.27	Horz(TL) 0.07	I	n/a	n/a	MT18H	244/190
BCDL 10.0	Code IRC2009/TPI2007	(Matrix-S)	Wind(LL) 0.21	L-S	>999	240	Weight: 177 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (4-6-10 max.): E-F.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12	WEBS 1 Row at midpt D-L, G-J

REACTIONS. (lb/size) I=1246/Mechanical, B=1300/0-5-8
 Max Horz B=203(LC 8)
 Max Uplift I=443(LC 9), B=-520(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1286/162, C-D=-1873/1937, D-E=-1589/1505, E-F=-1326/1495, F-G=-1585/1497, G-H=-1964/1914, H-I=-1033/0
 BOT CHORD B-L=-1546/1735, K-L=-831/1326, J-K=-831/1326, I-J=-1518/1700
 WEBS D-L=-498/803, E-L=-260/430, F-J=-218/401, G-J=-464/768

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) I=443, B=520.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job 807184_MASTER	Truss C09	Truss Type Common	Qty 3	Ply 1	H&H-NC/Dogwood/ 130485152
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Builders FirstSource, Sumter, SC 29153 7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:54 2017 Page 1
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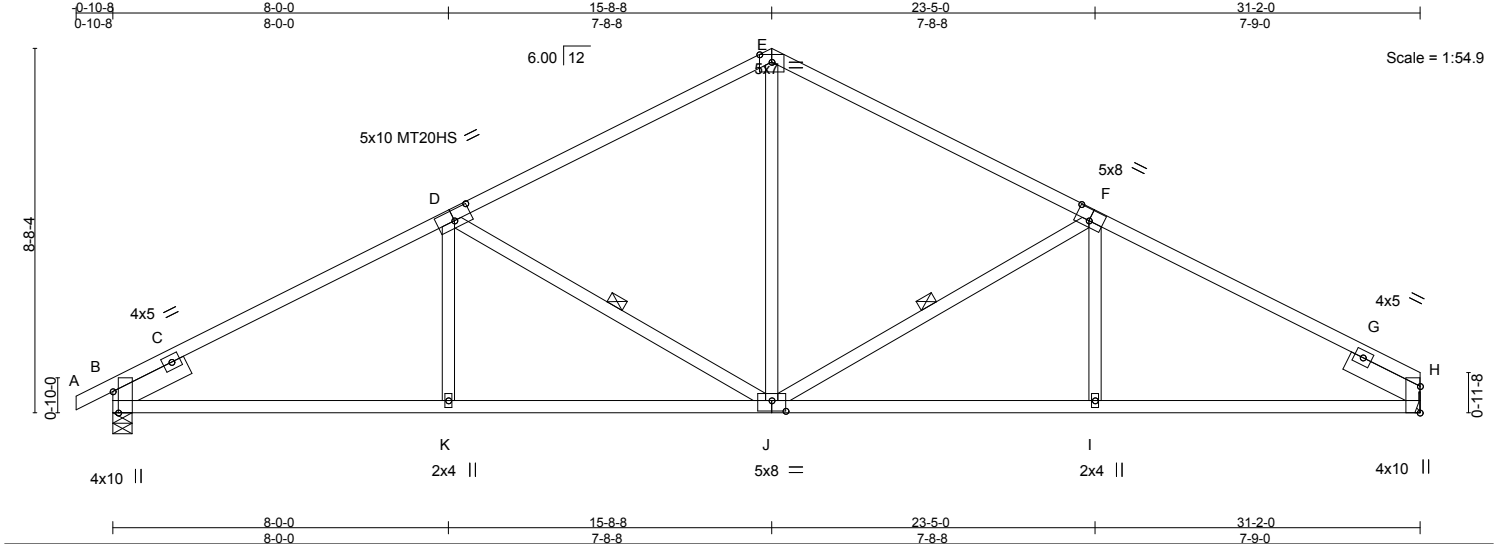


Plate Offsets (X,Y)-- [B:0-6-1,Edge], [D:0-5-0,0-3-0], [F:0-4-0,0-3-4], [H:0-7-9,Edge], [J:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.13	I-J	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(TL)	-0.40	I-J	>946	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(TL)	0.14	H	n/a		
BCDL 10.0	Code IRC2009/TPJ2007		(Matrix-S)	Wind(LL)	0.18	I-J	>999		
								Weight: 160 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 *Except*
 F-H: 2x4 SP No.1
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt D-J, F-J

REACTIONS. (lb/size) B=1300/0-5-8, H=1246/Mechanical
 Max Horz B=221(LC 8)
 Max Uplift B=532(LC 8), H=456(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-512/36, C-D=-1981/1811, D-E=-1446/1481, E-F=-1443/1479, F-G=-1937/1775,
 G-H=-317/96
 BOT CHORD B-K=-1403/1688, J-K=-1405/1686, I-J=-1362/1641, H-I=-1360/1643
 WEBS D-K=0/279, D-J=-610/773, E-J=-684/733, F-J=-564/723, F-I=0/266

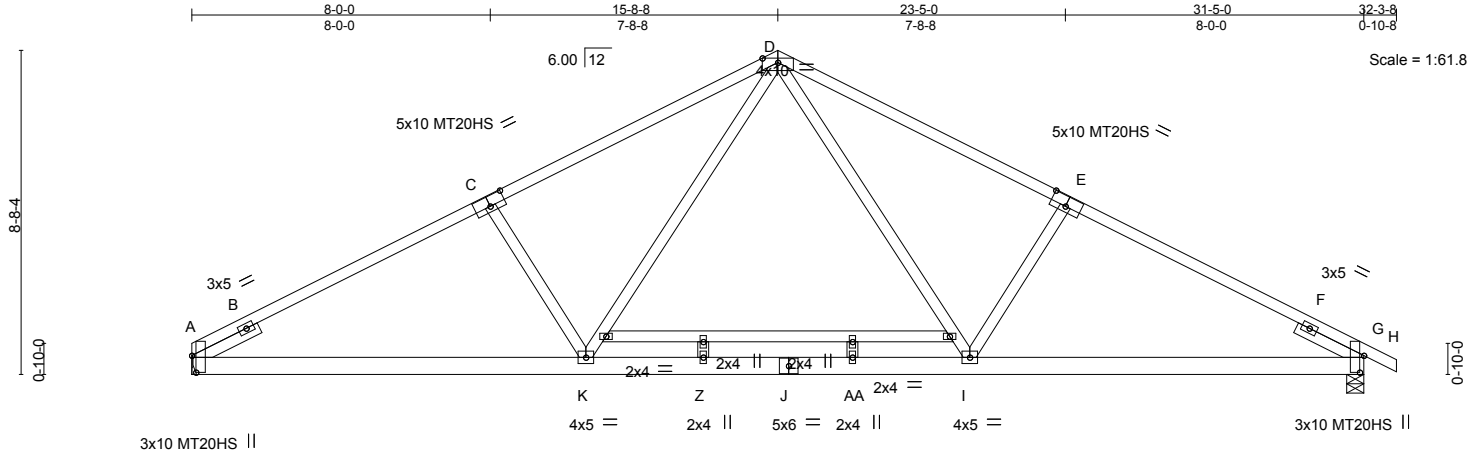
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=532, H=456.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Job 807184_MASTER	Truss C10	Truss Type COMMON	Qty 1	Ply 1	H&H-NC/Dogwood/ 130485153
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:54 2017 Page 1
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10-6-12	13-8-8	17-8-8	20-10-4	31-5-0
10-6-12	3-1-12	4-0-0	3-1-12	10-6-12

Plate Offsets (X,Y)-- [A:0-5-7,0-1-5], [C:0-5-0,0-3-4], [E:0-5-0,0-3-4], [G:0-5-7,0-1-5]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.89	Vert(LL)	-0.11	I-K	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.62	Vert(TL)	-0.53	I-K	>715	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.89	Horz(TL)	0.08	G	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Wind(LL)	0.15	I-K	>999		
	Code IRC2009/TP12007						Weight: 191 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) A=1356/Mechanical, G=1410/0-5-8

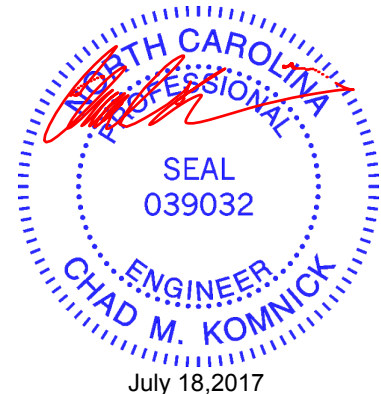
Max Horz A=-216(LC 9)
 Max Uplift A=-361(LC 8), G=-435(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD A-B=-820/112, B-C=-2249/1662, C-D=-2049/1648, D-E=-2046/1645, E-F=-2246/1659, F-G=-804/95
 BOT CHORD A-K=-1232/1937, K-Z=-587/1342, J-Z=-587/1342, J-AA=-587/1342, I-AA=-587/1342, G-I=-1229/1934
 WEBS D-I=-485/780, E-I=-408/755, D-K=-490/784, C-K=-409/756

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 15-8-8 from left end, supported at two points, 4-0-0 apart.
- 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=361, G=435.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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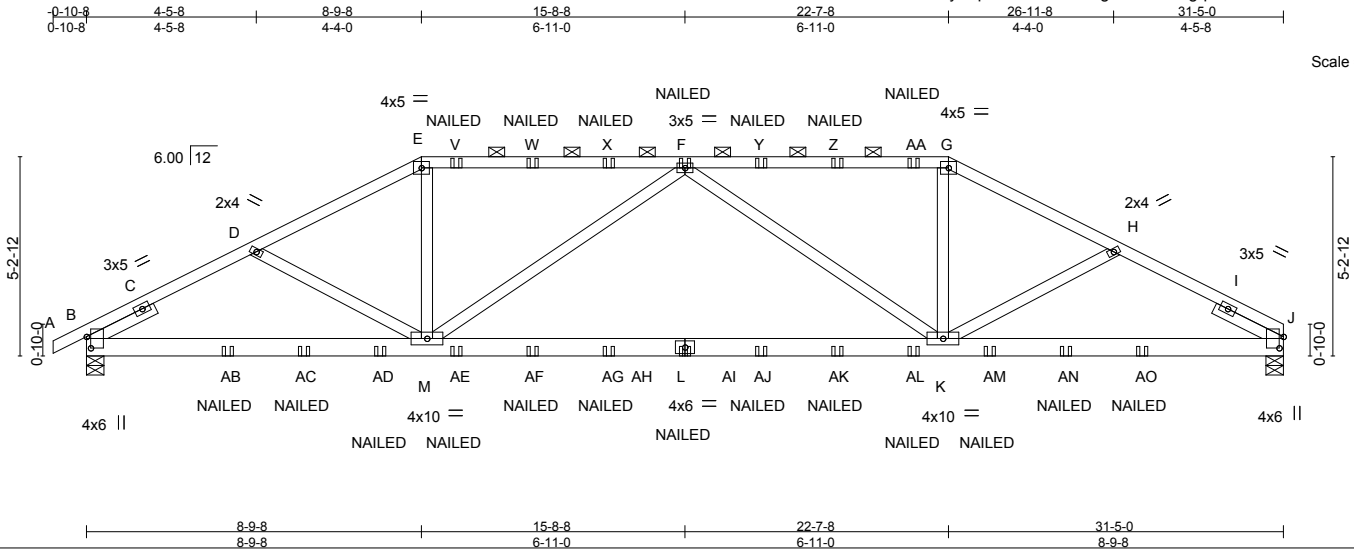


818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss C11	Truss Type Hip Girder	Qty 1	Ply 2	H&H-NC/Dogwood/ Job Reference (optional)	130485154
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:56 2017 Page 1
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Scale = 1:60.5

Plate Offsets (X,Y)-- [B:0-3-9,0-1-5], [J:0-3-9,0-1-5]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.80	Vert(LL)	-0.15	K-M	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(TL)	-0.43	K-M	>878	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.16	Horz(TL)	-0.06	J	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.36	K-M	>999	240	Weight: 366 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): E-G.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-4-10 oc bracing.
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) J=1809/0-5-8, B=1863/0-5-8
Max Horz B=140(LC 6)
Max Uplift J=-1818(LC 7), B=-1891(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1512/1474, C-D=-2976/3206, D-E=-2821/3182, E-V=-2515/2948, V-W=-2515/2948, W-X=-2515/2948, F-X=-2515/2948, F-Y=-2518/2952, Y-Z=-2518/2952, Z-AA=-2518/2952, G-AA=-2518/2952, G-H=-2824/3186, H-I=-2981/3213, I-J=-1546/1511
BOT CHORD B-AB=-2828/2597, AB-AC=-2828/2597, AC-AD=-2828/2597, M-AD=-2828/2597, M-AE=-3481/2936, AE-AF=-3481/2936, AF-AG=-3481/2936, AG-AH=-3481/2936, L-AH=-3481/2936, L-AI=-3481/2936, AI-AJ=-3481/2936, AJ-AK=-3481/2936, AK-AL=-3481/2936, K-AL=-3481/2936, K-AM=-2737/2603, AM-AN=-2737/2603, AN-AO=-2737/2603, J-AO=-2737/2603
WEBS D-M=-174/326, E-M=-941/858, F-M=-605/939, F-K=-603/938, G-K=-940/860, H-K=-173/330

- NOTES-**
- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 3) Unbalanced roof live loads have been considered for this design.
 - 4) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 6) Provide adequate drainage to prevent water ponding.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) J=1818, B=1891.
 - 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.

LOAD CASE(S) Standard

Continued on page 2



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485154
807184_MASTER	C11	Hip Girder	1	2		

Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:58:56 2017 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUBYNvpB-NW?eJXxNVgUoPhvhX1gq4Is74uNSnsLBw9k2Dwywruz

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-E=-60, E-G=-60, G-J=-60, N-R=-20

Concentrated Loads (lb)

Vert: L=-22(B) F=-32(B) V=-32(B) W=-32(B) X=-32(B) Y=-32(B) Z=-32(B) AA=-32(B) AB=-142(B) AC=-115(B) AD=-107(B) AE=-22(B) AF=-22(B) AG=-22(B) AJ=-22(B)

AK=-22(B) AL=-22(B) AM=-107(B) AN=-115(B) AO=-142(B)

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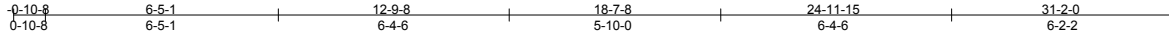
818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss C12	Truss Type HIP	Qty 1	Ply 1	H&H-NC/Dogwood/ 130485155
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:56 2017 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-NW?eJXxNvgUoPhvhX1gg4ls8DuLmnoJBw9k2Dwywruz



Scale: 3/16"=1'

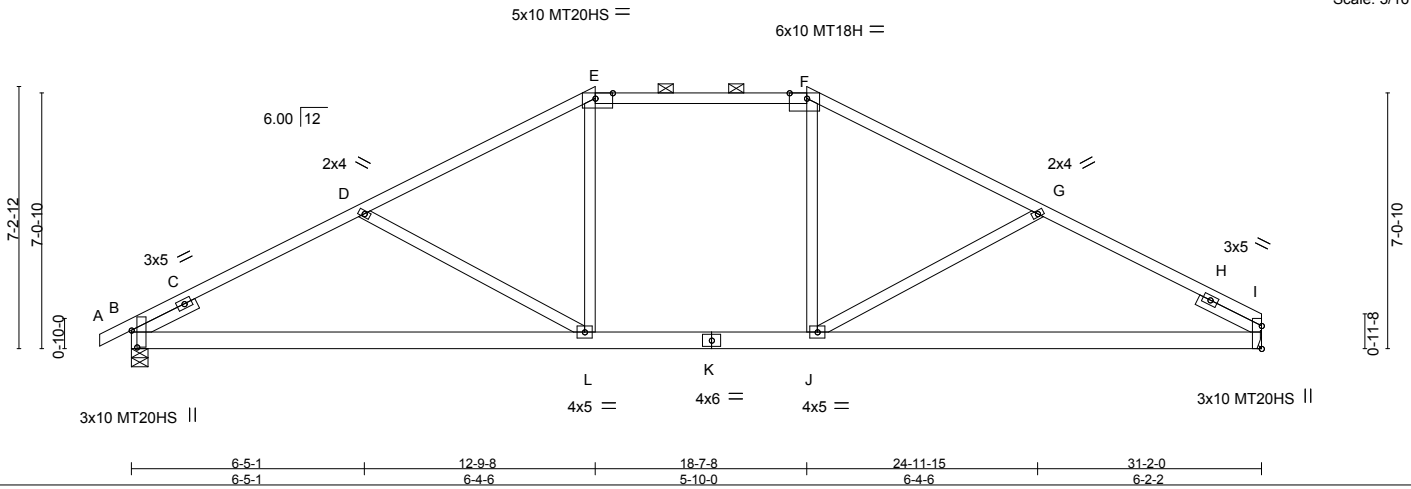


Plate Offsets (X,Y)-- [B:0-5-9,0-1-13], [E:0-5-12,Edge], [F:0-5-12,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	-0.28	L-S	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(TL)	-0.53	L-S	>711	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.42	Horz(TL)	0.08	I	n/a	n/a	MT18H	244/190
BCDL 10.0	Code	IRC2009/TPI2007	(Matrix-S)	Wind(LL)	0.27	L-S	>999	240		Weight: 171 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-6-11 max.); E-F.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) I=1246/Mechanical, B=1300/0-5-8

Max Horz B=187(LC 8)
 Max Uplift I=429(LC 9), B=-505(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD B-C=-1152/218, C-D=-2009/1913, D-E=-1678/1569, E-F=-1423/1538, F-G=-1671/1563, G-H=-1969/1882, H-I=-872/0
 BOT CHORD B-L=-1533/1745, K-L=-945/1423, J-K=-945/1423, I-J=-1492/1701
 WEBS D-L=-414/669, E-L=-196/426, F-J=-174/406, G-J=-371/623

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) I=429, B=505.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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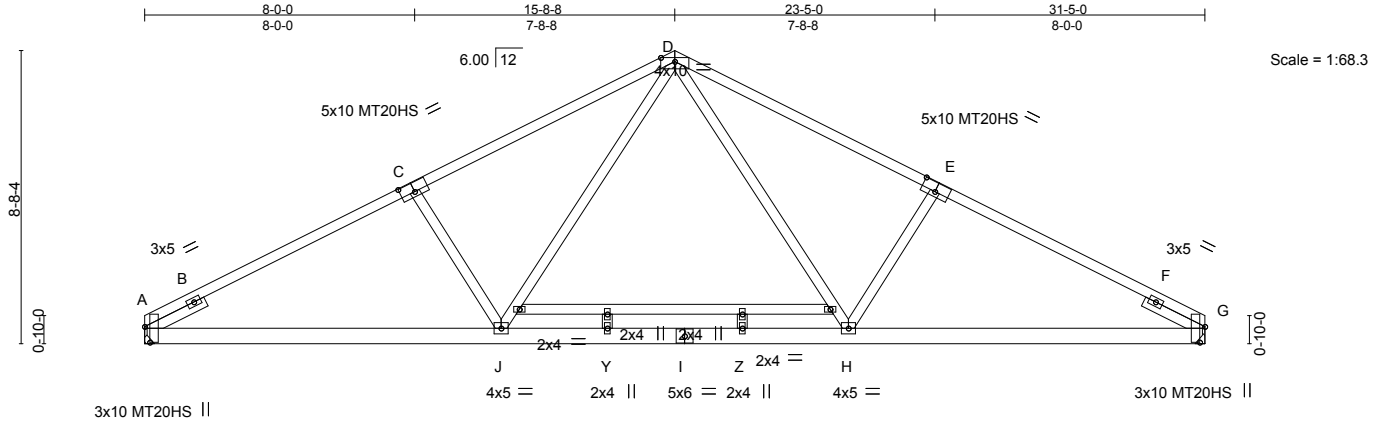


818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss C13	Truss Type COMMON	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485156
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:57 2017 Page 1
ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-riZ1Wty?G_ce0rU4k83czPHNlhkW87K9pUclNywruy



10-6-12	13-8-8	17-8-8	20-10-4	31-5-0
10-6-12	3-1-12	4-0-0	3-1-12	10-6-12

Plate Offsets (X,Y)-- [A:0-5-9,0-1-13]. [C:0-5-0,0-3-4]. [E:0-5-0,0-3-4]. [G:0-5-9,0-1-13]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.89	Vert(LL)	-0.10	H-J	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(TL)	-0.53	H-J	>718	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.89	Horz(TL)	0.07	G	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.15	H-J	>999		
								Weight: 189 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

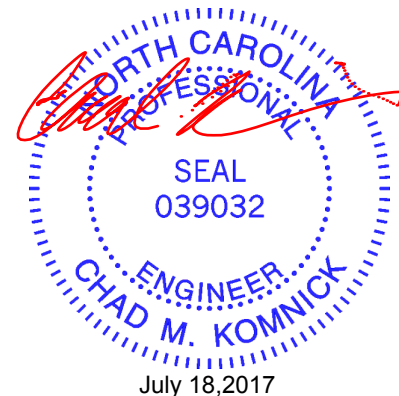
REACTIONS. (lb/size) A=1357/Mechanical, G=1357/Mechanical
 Max Horz A=-190(LC 6)
 Max Uplift A=-361(LC 8), G=-361(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD A-B=-820/113, B-C=-2250/1663, C-D=-2050/1649, D-E=-2050/1649, E-F=-2250/1663, F-G=-820/113
 BOT CHORD A-J=-1269/1939, J-Y=-624/1343, I-Y=-624/1343, I-Z=-624/1343, H-Z=-624/1343, G-H=-1269/1939
 WEBS D-H=-489/783, E-H=-409/756, D-J=-489/783, C-J=-409/756

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 15-8-8 from left end, supported at two points, 4-0-0 apart.
- 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=361, G=361.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss C14	Truss Type COMMON	Qty 6	Ply 1	H&H-NC/Dogwood/ 130485157
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:57 2017 Page 1

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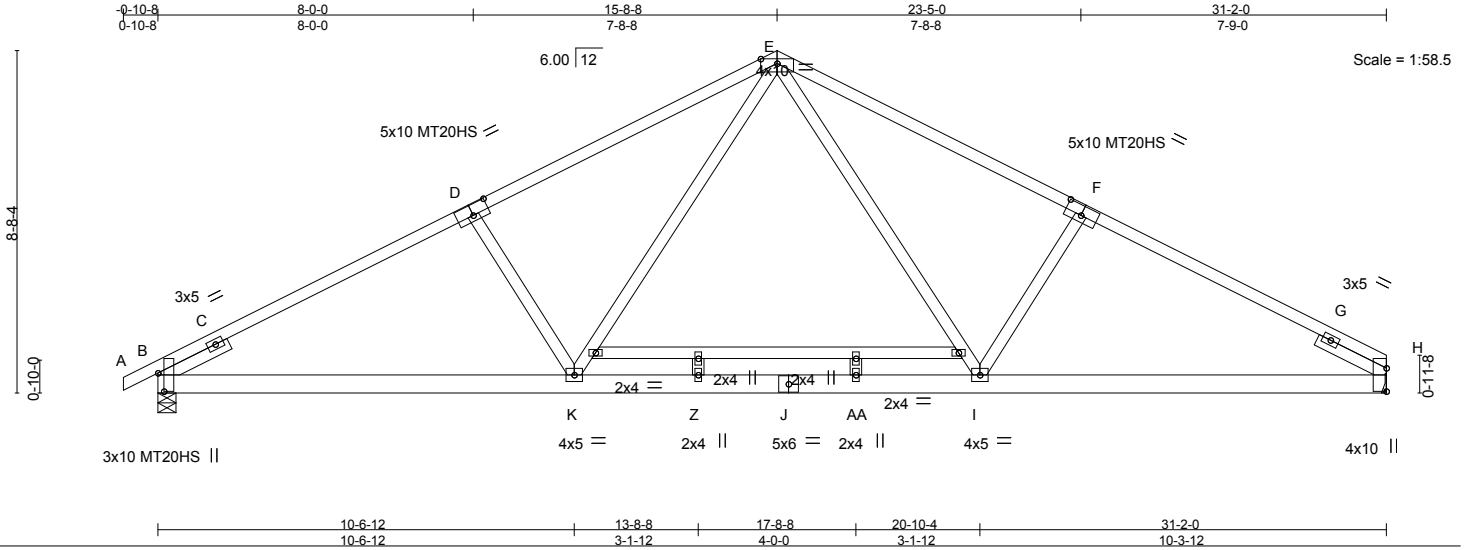


Plate Offsets (X,Y)-- [B:0-5-9,0-1-13]. [D:0-5-0,0-3-4]. [F:0-5-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.89	Vert(LL)	-0.12	I-K	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(TL)	-0.56	I-K	>668	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(TL)	0.09	H	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-S)	Wind(LL)	0.17	I-K	>999		Weight: 190 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) B=1399/0-5-8, H=1347/Mechanical

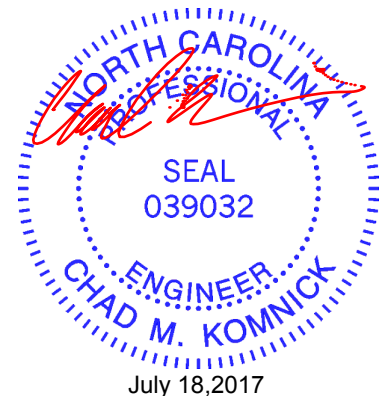
Max Horz B=221(LC 8)
 Max Uplift B=-433(LC 8), H=-355(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD B-C=-792/83, C-D=-2226/1644, D-E=-2027/1630, E-F=-1989/1601, F-G=-2181/1613, G-H=-578/0
 BOT CHORD B-K=-1264/1917, K-Z=-618/1320, J-Z=-618/1320, J-AA=-618/1320, I-AA=-618/1320, H-I=-1231/1874
 WEBS D-K=-407/754, E-K=-493/786, E-I=-446/733, F-I=-389/738

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 15-8-8 from left end, supported at two points, 4-0-0 apart.
- 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=433, H=355.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485158
807184_MASTER	C15	Roof Special	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:58 2017 Page 1
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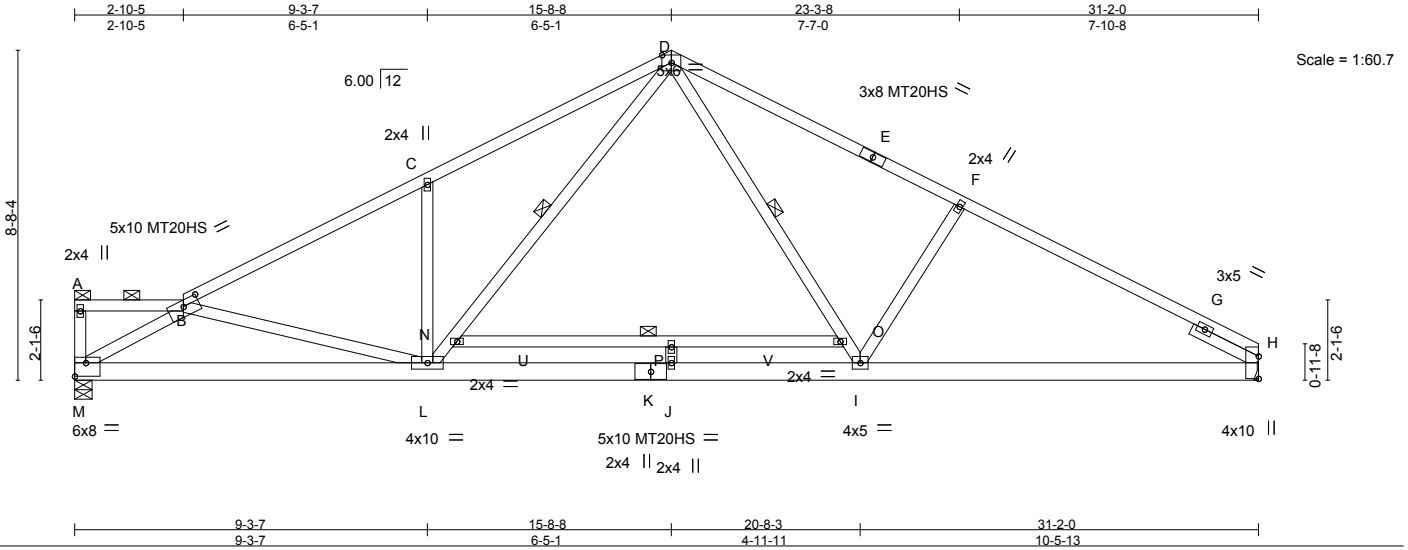


Plate Offsets (X,Y)-- [B:0-5-0,0-1-14], [M:Edge,0-4-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	-0.32	J-L >999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(TL)	-0.55	J-L >677	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.60	Horz(TL)	0.08	H	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-S)	Wind(LL)	0.17	J >999	240		
								Weight: 203 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* E-H: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): A-B.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* N-O: 2x4 SP No.2	WEBS 1 Row at midpt D-L, D-I, N-O
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) M=1241/0-5-8, H=1241/Mechanical
Max Horz M=-217(LC 9)
Max Uplift M=-458(LC 8), H=453(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1933/1718, C-D=-1933/2080, D-E=-1652/1797, E-F=-1750/1760, F-G=-1950/1814,
G-H=-574/0
BOT CHORD L-M=-1540/1712, K-L=-766/1200, J-K=-766/1200, I-J=-766/1200, H-I=-1403/1671
WEBS B-M=-2001/2001, B-L=-104/299, C-L=-412/726, L-N=-830/818, D-N=-853/861,
D-O=-565/757, I-O=-545/684, F-I=-409/741

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) M=458, H=453.
 - 10) Load case(s) 2, 3, 15, 16 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-D=-60, D-H=-60, M-Q=-20



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485158
807184_MASTER	C15	Roof Special	1	1		

Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:58 2017 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-Jv7PkDye1HkVe?24eSjI9AxRyhZRFf0TOSD9Hpywrx

LOAD CASE(S) Standard

- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-50, B-D=-50, D-H=-50, M-Q=-20, U-V=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: A-B=-20, B-D=-20, D-H=-20, M-Q=-40, U-V=-40
- 15) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-50, B-D=-50, D-H=-20, M-Q=-20, U-V=-30
- 16) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-20, B-D=-20, D-H=-50, M-Q=-20, U-V=-30

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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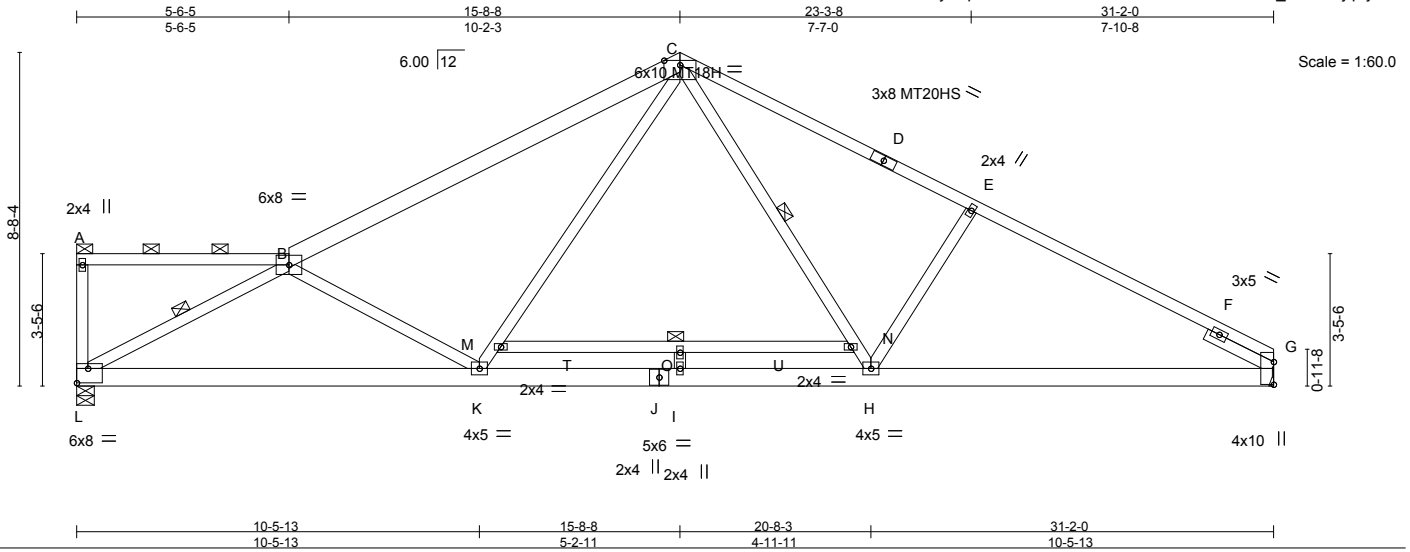


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485159
807184_MASTER	C16	Roof Special	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:59 2017 Page 1
ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-n5hnxZzGobsMG9dGC9EXhOUc5Ld_6Ddd6zjqFywrw



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.95	Vert(LL)	-0.21	I	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.72	Vert(TL)	-0.38	I	>988	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.60	Horz(TL)	0.07	G	n/a	MT18H	244/190
BCDL 10.0	Rep Stress Incr NO	(Matrix-S)	Wind(LL)	0.15	I	>999		Weight: 208 lb FT = 20%
	Code IRC2009/TP12007							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* B-C: 2x6 SP No.2, C-D: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): A-B.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt B-L, C-H, M-N
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) L=1241/0-5-8, G=1241/Mechanical
Max Horz L=-268(LC 9)
Max Uplift L=-465(LC 8), G=-449(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1780/1574, C-D=-1642/1765, D-E=-1739/1736, E-F=-1937/1778, F-G=-600/0
BOT CHORD K-L=-1517/1821, J-K=-778/1240, I-J=-778/1240, H-I=-778/1240, G-H=-1367/1657
WEBS B-L=-2041/2012, B-K=-451/736, K-M=-276/656, C-M=-301/740, C-N=-537/683, H-N=-512/605, E-H=-395/695

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) L=465, G=449.
 - Load case(s) 2, 3, 15, 16 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-C=-60, C-G=-60, L-P=-20
 - Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-50, B-C=-50, C-G=-50, L-P=-20, T-U=-30

Continued on page 2



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485159
807184_MASTER	C16	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITek Industries, Inc. Tue Jul 18 10:58:59 2017 Page 2
 ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-n5hnxZzGobsMG9dGC9EXhOUcx5Ld_6Ddd6zjqFywruw

LOAD CASE(S) Standard

- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: A-B=-20, B-C=-20, C-G=-20, L-P=-40, T-U=-40
- 15) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-B=-50, B-C=-50, C-G=-20, L-P=-20, T-U=-30
- 16) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-B=-20, B-C=-20, C-G=-50, L-P=-20, T-U=-30

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818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss C17	Truss Type Roof Special	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485160
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:59 2017 Page 1
ID:PFhEEkzM06?Kz1KM4J4YUBynvpB-n5hnxZzGobsMG9dGC9EXhOUbS5Lj_1pdd6zjqFywrw

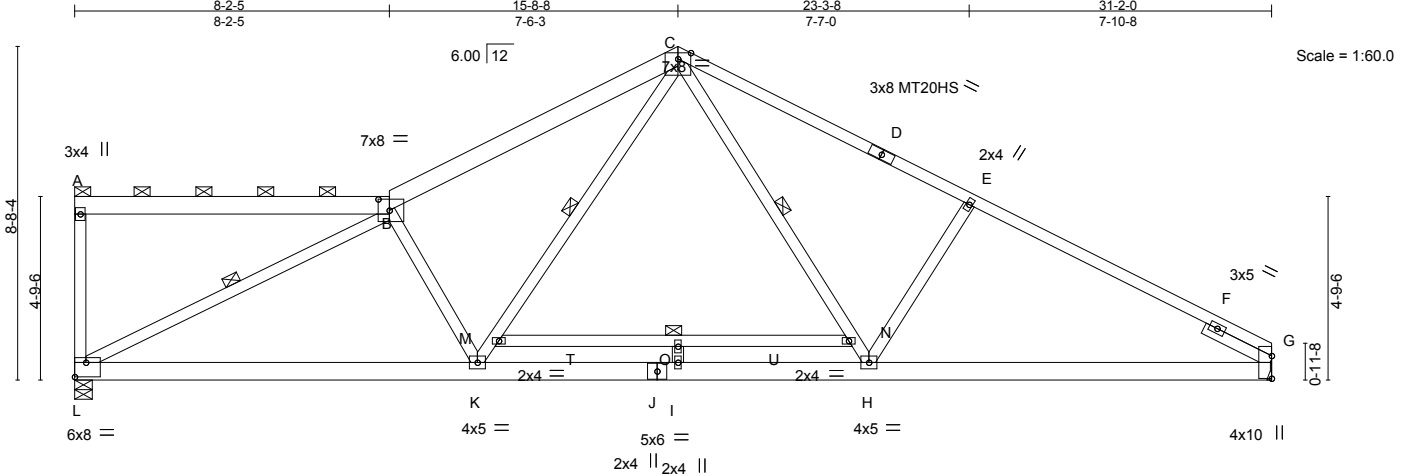


Plate Offsets (X,Y)-- [B:0-3-8,0-3-8], [L:Edge,0-4-8]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.98	Vert(LL) -0.21 I >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.71	Vert(TL) -0.39 I >964 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.94	Horz(TL) 0.07 G n/a n/a		
BCDL 10.0	Code IRC2009/TP12007	(Matrix-S)	Wind(LL) 0.16 I >999 240		
				Weight: 216 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* C-D,D-G: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): A-B.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt B-L, C-K, C-H, M-N
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) L=1241/0-5-8, G=1241/Mechanical
Max Horz L=-316(LC 9)
Max Uplift L=-474(LC 8), G=-443(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-L=-228/276, B-C=-1847/1725, C-D=-1640/1735, D-E=-1743/1707, E-F=-1941/1751, F-G=-607/0
BOT CHORD K-L=-1262/1739, J-K=-741/1241, I-J=-741/1241, H-I=-741/1241, G-H=-1346/1663
WEBS B-L=-1924/1814, B-K=-441/656, K-M=-490/718, C-M=-525/802, C-N=-570/684, H-N=-536/605, E-H=-400/727

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) L=474, G=443.
 - 10) Load case(s) 2, 3, 15, 16 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-C=-60, C-G=-60, L-P=-20
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



Continued on page 2

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/
807184_MASTER	C17	Roof Special	1	1	I30485160

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:58:59 2017 Page 2
 ID:PFhEEKzM06?Kz1KM4J4YUBynvpB-n5hnxZzGobsMG9dGC9EXhOUbS5Lj_1pdd6zjqFywrw

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: A-B=-50, B-C=-50, C-G=-50, L-P=-20, T-U=-30

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: A-B=-20, B-C=-20, C-G=-20, L-P=-40, T-U=-40

15) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-B=-50, B-C=-50, C-G=-20, L-P=-20, T-U=-30

16) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-B=-20, B-C=-20, C-G=-50, L-P=-20, T-U=-30

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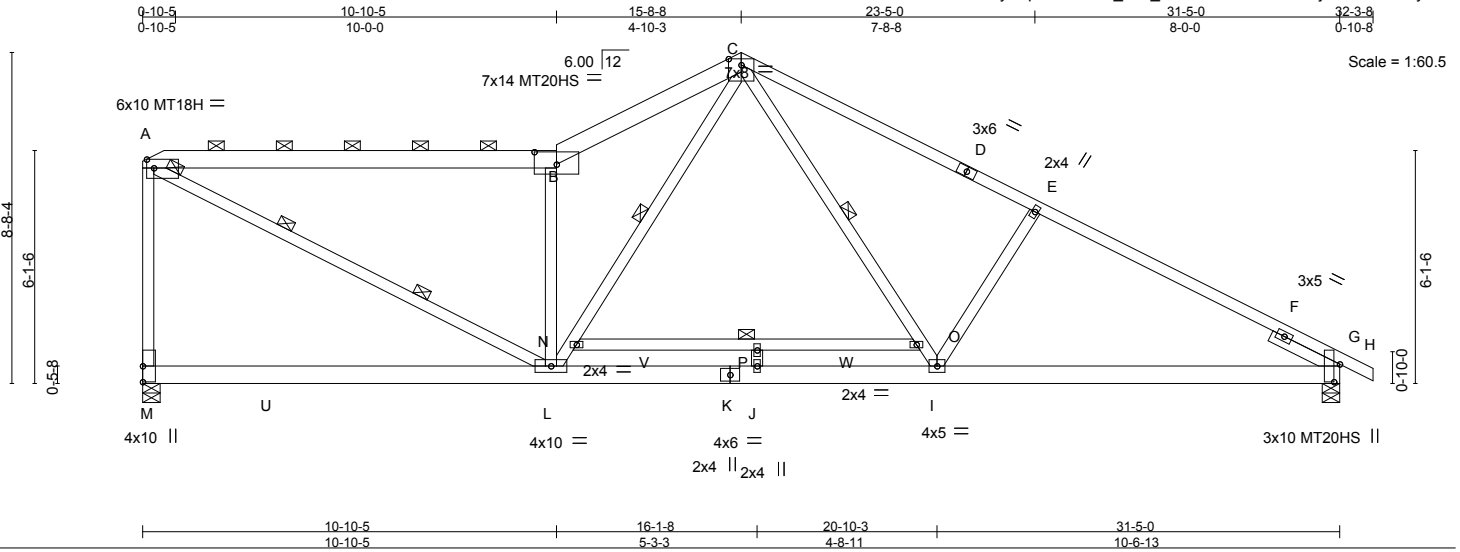


818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss C18	Truss Type Roof Special	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485161
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:00 2017 Page 1
ID:PFhEEKzMO6?Kz1KM4J4YUBYNvpB-FHE98v_uZv_DtJCSmtImEb0m8VizjVammrmiGMhywruv



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.99	Vert(LL)	-0.20	J	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.65	Vert(TL)	-0.37	J	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.85	Horz(TL)	0.04	G	n/a	MT18H	244/190
BCDL 10.0	Code IRC2009/TP12007		(Matrix-S)	Wind(LL)	0.16	J-L	>999		Weight: 224 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* B-C: 2x6 SP No.2, C-D: 2x4 SP No.2, D-H: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-4-1 max.): A-B.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* A-M: 2x4 SP No.2	WEBS 1 Row at midpt C-L, C-I, N-O 2 Rows at 1/3 pts A-L
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) M=1250/0-5-8, G=1304/0-5-8
Max Horz M=-416(LC 9)
Max Uplift M=-489(LC 8), G=-514(LC 9)
Max Grav M=1263(LC 2), G=1304(LC 1)

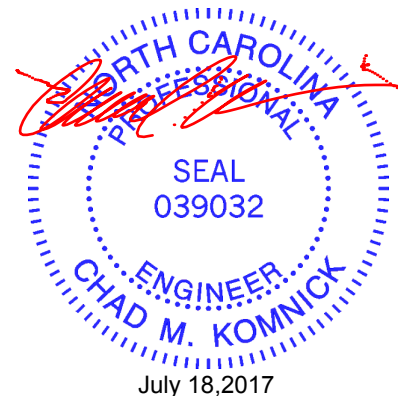
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1613/1464, B-C=-1948/1873, C-D=-1697/1741, D-E=-1805/1703, E-F=-2008/1758,
F-G=-850/118, A-M=-1149/1153
BOT CHORD M-U=0/520, L-U=0/520, K-L=619/1208, J-K=-619/1208, I-J=-619/1208, G-I=-1317/1727
WEBS A-L=-1604/1766, B-L=-1380/1529, L-N=-706/921, C-N=-724/936, C-O=-634/721,
I-O=-615/668, E-I=-418/761

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) M=489, G=514.
 - Load case(s) 2, 3, 15, 16 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-C=-60, C-H=-60, M-Q=-20

Continued on page 2



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485161
807184_MASTER	C18	Roof Special	1	1		

Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:00 2017 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-FHE98v_uZv_DtJCSmtImEb0m8VizjVamrmiGMhywruv

LOAD CASE(S) Standard

- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-50, B-C=-50, C-H=-50, M-U=-50, Q-U=-20, V-W=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: A-B=-20, B-C=-20, C-H=-20, M-Q=-40, V-W=-40
- 15) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-50, B-C=-50, C-H=-20, M-U=-50, Q-U=-20, V-W=-30
- 16) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-20, B-C=-20, C-H=-50, M-U=-50, Q-U=-20, V-W=-30

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314. **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**



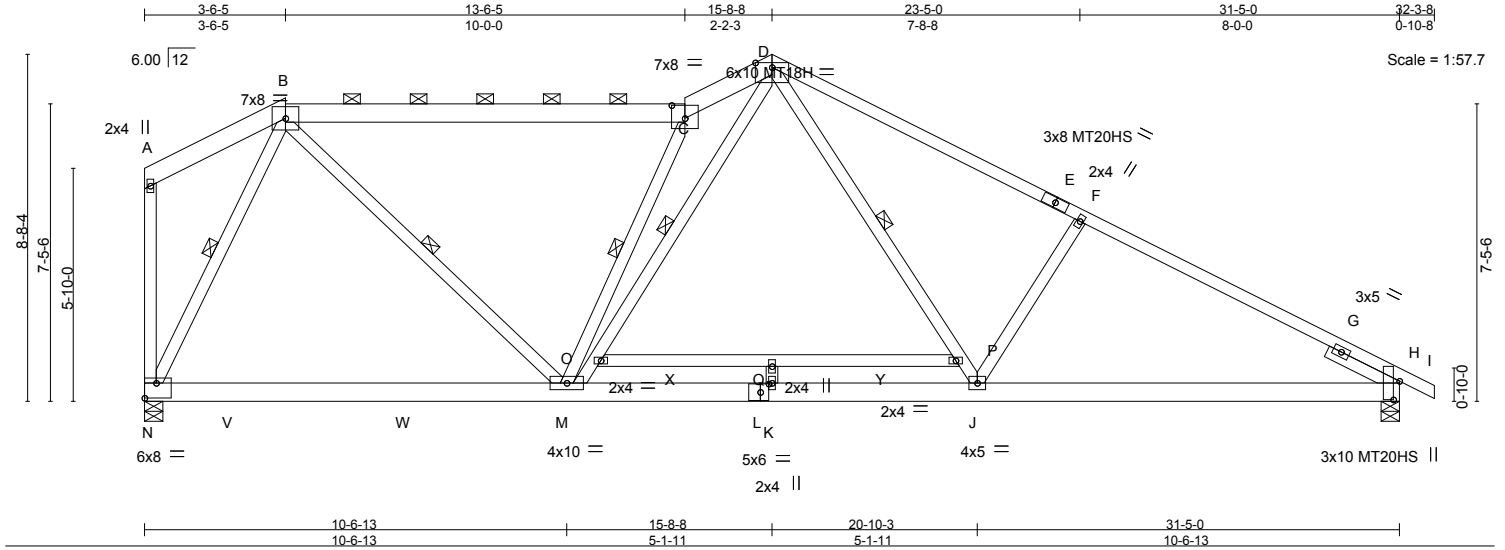
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485162
807184_MASTER	C19	Roof Special	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:01 2017 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-kUoXMF?WKC64VTnfJaG?npZxgv3SS_4w4QSpu8ywrwu



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 1.00	Vert(LL) -0.21	K	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(TL) -0.38	K	>987	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.77	Horz(TL) 0.04	H	n/a	n/a	MT18H	244/190
BCDL 10.0	Code IRC2009/TP12007	(Matrix-S)	Wind(LL) 0.15	K-M	>999	240		Weight: 236 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* D-E,E-I: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-8-2 max.): B-C.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* D-M,D-J: 2x4 SP No.2	WEBS 1 Row at midpt B-M, C-M, D-M, D-J, B-N
SLIDER Right 2x4 SP No.3 1-11-12	

REACTIONS. (lb/size) H=1304/0-5-8, N=1250/0-5-8
 Max Horz N=-407(LC 9)
 Max Uplift H=-516(LC 9), N=-486(LC 8)
 Max Grav H=1304(LC 1), N=1285(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1239/1159, C-D=-2022/2073, D-E=-1783/1731, E-F=-1802/1689, F-G=-2003/1747, G-H=-811/44
 BOT CHORD N-V=-110/570, V-W=-110/570, M-W=-110/570, L-M=-497/1079, K-L=-497/1079, J-K=-497/1079, H-J=-1304/1721
 WEBS B-M=-657/966, C-M=-1396/1536, M-O=-989/1193, D-O=-934/1134, D-P=-605/713, J-P=-648/706, F-J=-406/741, B-N=-1286/1259

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=516, N=486.
 - 9) Load case(s) 2, 3, 15, 16 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-B=-60, B-C=-60, C-D=-60, D-I=-60, N-R=-20

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/
807184_MASTER	C19	Roof Special	1	1	I30485162

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:01 2017 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-kUoXMF?WKC64VTnfJaG?npZxgv3SS_4w4QSpu8ywrUU

LOAD CASE(S) Standard

- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-50, B-C=-50, C-D=-50, D-I=-50, N-V=-20, V-W=-50, R-W=-20, X-Y=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: A-B=-20, B-C=-20, C-D=-20, D-I=-20, N-R=-40, X-Y=-40
- 15) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-50, B-C=-50, C-D=-50, D-I=-20, N-V=-20, V-W=-50, R-W=-20, X-Y=-30
- 16) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-20, B-C=-20, C-D=-20, D-I=-50, N-V=-20, V-W=-50, R-W=-20, X-Y=-30

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



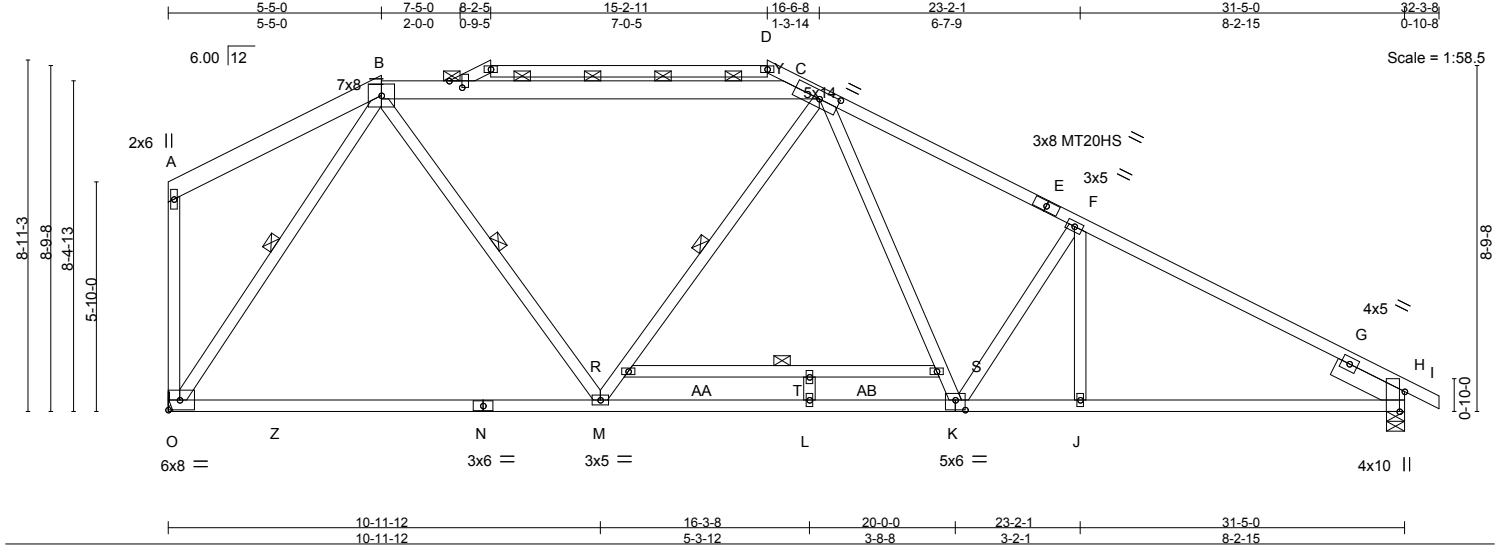
818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss C20	Truss Type Roof Special	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485163
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:02 2017 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-CgMvZb784WFx7cMrthHnEJ065mlKmBpc3J4BNRayrwtr



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.98	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.95	Vert(LL) -0.48 M-O >781 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.88	Vert(TL) -0.93 M-O >404 240		
BCDL 10.0	Rep Stress Incr NO	(Matrix-S)	Horz(TL) 0.08 H n/a n/a		
	Code IRC2009/TP12007		Wind(LL) 0.11 K >999 240		
				Weight: 222 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* A-B,B-C: 2x6 SP No.2, D-E: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-9-13 max.): B-C.
BOT CHORD 2x4 SP No.2 *Except* N-O: 2x4 SP No.1, K-N: 2x4 SP SS	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* A-O: 2x4 SP No.2	WEBS 1 Row at midpt B-M, C-M, B-O, R-S
SLIDER Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) O=1259/Mechanical, H=1313/0-5-8
 Max Horz O=-424(LC 9)
 Max Uplift O=-384(LC 6), H=-521(LC 9)
 Max Grav O=1297(LC 2), H=1313(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-Y=-1119/1340, C-Y=-1115/1341, C-E=-1545/1832, E-F=-1712/1798, F-G=-1983/1852, G-H=-617/0
 BOT CHORD O-Z=-157/714, N-Z=-157/714, M-N=-157/714, L-M=-798/1262, K-L=-798/1262, J-K=-1348/1686, H-J=-1348/1686
 WEBS B-M=-580/756, M-R=-377/729, C-R=-365/728, F-K=-403/642, B-O=-1258/1402, C-S=-511/576, K-S=-509/522

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 9) Refer to girder(s) for truss to truss connections.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) O=384, H=521.
 - 11) Load case(s) 2, 3, 15, 16 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485163
807184_MASTER	C20	Roof Special	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:02 2017 Page 2
 ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-CgMvZb?84WfX7cMrHhEJ065mlKmBpc3J4BNRaywut

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-B=-60, B-Y=-60, C-Y=-20, C-D=-60, C-I=-60, O-U=-20
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-B=-50, B-Y=-50, C-Y=-20, C-D=-50, C-I=-50, O-Z=-20, N-Z=-50, N-U=-20, AA-AB=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: A-B=-20, B-C=-20, C-D=-20, C-I=-20, O-U=-40, AA-AB=-40
- 15) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-B=-50, B-Y=-50, C-Y=-20, C-D=-20, C-I=-20, O-Z=-20, N-Z=-50, N-U=-20, AA-AB=-30
- 16) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-B=-20, B-Y=-50, C-Y=-20, C-D=-50, C-I=-50, O-Z=-20, N-Z=-50, N-U=-20, AA-AB=-30

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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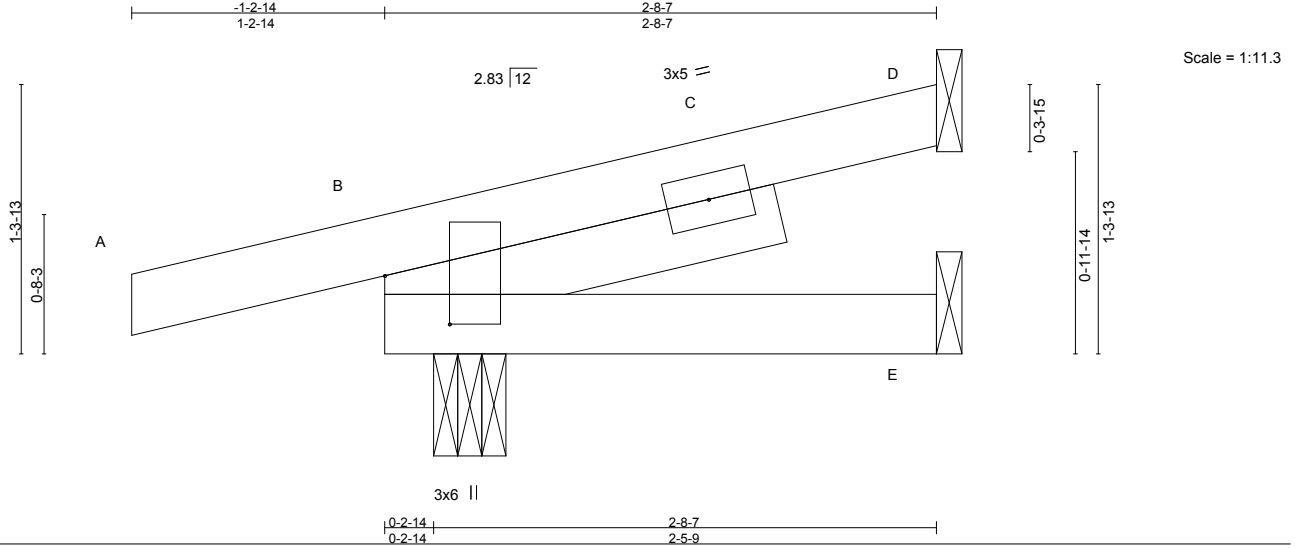


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	
807184_MASTER	CJ01	DIAGONAL HIP GIRDER	3	1		I30485164

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:02 2017 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-CgMvZb?84WFx7cMrHnEJ06HpIVDBcl3J4BNRaywrt



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL	20.0	2-0-0	Plate Grip DOL	1.15	TC	0.21	in (loc)	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(LL)	-0.00 F >999		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Vert(TL)	-0.00 J >999		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Horz(TL)	-0.00 B n/a		
						Wind(LL)	0.00 E-J >999	Weight: 13 lb	FT = 20%

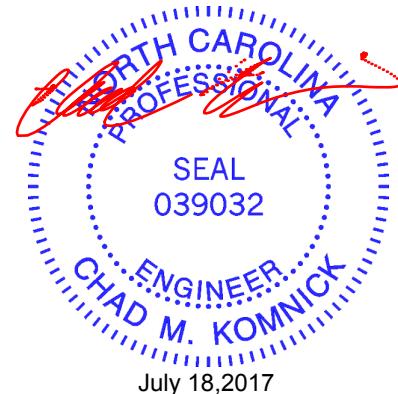
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 SLIDER Left 2x4 SP No.3 1-11-12

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) D=36/Mechanical, E=15/Mechanical, B=234/0-4-4
 Max Horz B=65(LC 6)
 Max Uplift D=-37(LC 7), E=-33(LC 7), B=-268(LC 6)
 Max Grav D=36(LC 1), E=33(LC 3), B=234(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; cantilever left exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, E except (jt=lb) B=268.
 - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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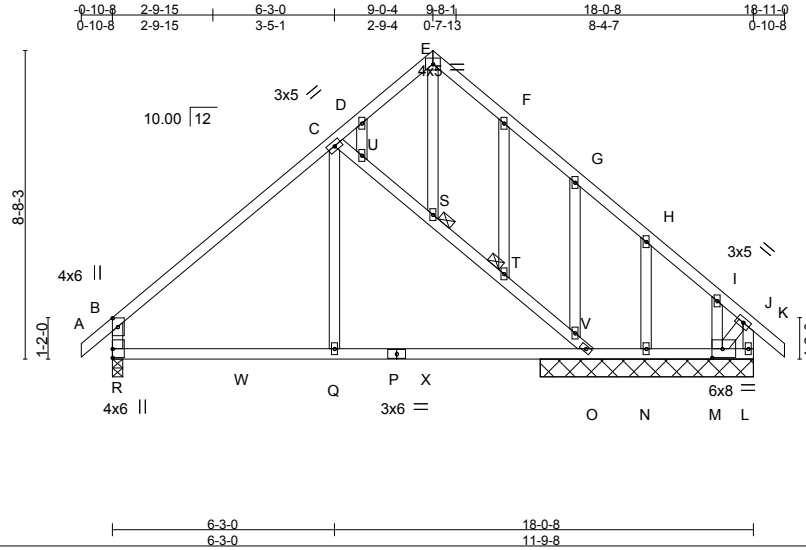


818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss D01	Truss Type QUEENPOST	Qty 1	Ply 1	H&H-NC/Dogwood/ 130485165
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:03 2017 Page 1
ID:PFhEEKz0M06?Kz1KM4J4YUByNvpB-gswInx0mrqNokmx1R?ITsEeIVionwvNDXkxwz0yvrus



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.05	O-Q	>999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(TL)	-0.14	O-Q	>999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(TL)	0.02	L	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	-0.05	O-Q	>999	Weight: 120 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.3	JOINTS	1 Brace at Jt(s): S, T

REACTIONS. All bearings 6-0-0 except (jt=length) R=0-3-8.
 (lb) - Max Horz R=-583(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) L except R=-391(LC 8), O=-429(LC 8), N=-360(LC 9), M=-562(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) N, M except R=633(LC 2), O=556(LC 2), L=574(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-612/309, C-D=-246/349, D-E=-198/285, H-I=-339/22, I-J=-416/34, B-R=-563/491, J-L=-573/66
 BOT CHORD R-W=-342/544, Q-W=-342/544, P-Q=-342/544, P-X=-342/544, O-X=-342/544, N-O=-30/516, M-N=-30/516
 WEBS C-U=-385/652, S-U=-373/532, S-T=-372/515, T-V=-372/545, O-V=-442/683, C-Q=0/309, G-V=-175/339, H-N=-136/325,
 J-M=-32/609

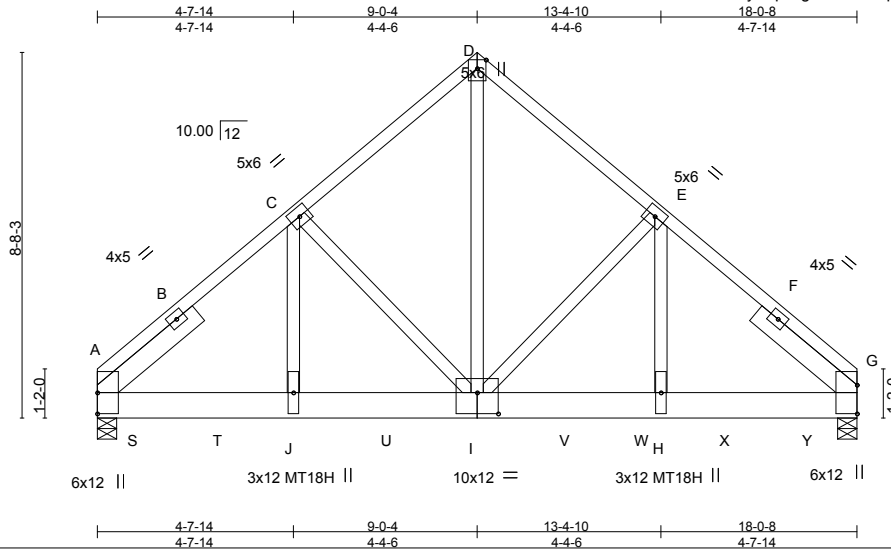
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) L except (jt=lb) R=391, O=429, N=360, M=562.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Job 807184_MASTER	Truss D02	Truss Type COMMON GIRDER	Qty 1	Ply 2	H&H-NC/Dogwood/ Job Reference (optional)	130485166
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:03 2017 Page 1
ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-gswlX0mrqNokmx1R?ITsEeJUinowrDDXkxwz0ywrus



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.09 H-I >999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(TL)	-0.22 H-I >974	240	MT18H	244/190	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.92	Horz(TL)	0.04 G n/a	n/a			
BCDL	10.0	Code	IRC2009/TP12007	(Matrix-M)		Wind(LL)	0.11 H-I >999	240	Weight: 293 lb FT = 20%		

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x8 SP DSS
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 3-0-10, Right 2x6 SP No.2 3-0-10

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=8064/0-5-8, G=8056/0-5-8
 Max Horz A=-394(LC 4)
 Max Uplift A=-2799(LC 6), G=-2445(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-4998/1679, B-C=-8126/2821, C-D=-6186/2150, D-E=-6183/2150, E-F=-8479/2648, F-G=-5161/1526
 BOT CHORD A-S=-2201/6106, S-T=-2201/6106, J-T=-2201/6106, J-U=-2201/6106, I-U=-2201/6106, I-V=-1904/6369, V-W=-1904/6369, H-W=-1904/6369, H-X=-1904/6369, X-Y=-1904/6369, G-Y=-1904/6369
 WEBS D-I=-2527/7482, E-I=-2383/855, E-H=-813/3164, C-I=-2003/1045, C-J=-1058/2650

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=2799, G=2445.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1548 lb down and 585 lb up at 0-11-0, 1547 lb down and 586 lb up at 2-11-0, 1547 lb down and 586 lb up at 4-11-0, 1626 lb down and 594 lb up at 6-11-0, 1728 lb down and 601 lb up at 8-11-0, 1751 lb down and 441 lb up at 11-2-0, 1751 lb down and 441 lb up at 12-11-0, and 1851 lb down and 565 lb up at 14-11-12, and 1327 lb down and 367 lb up at 16-11-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485166
807184_MASTER	D02	COMMON GIRDER	1	2	Job Reference (optional)	

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITek Industries, Inc. Tue Jul 18 10:59:03 2017 Page 2
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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-D=-60, D-G=-60, K-O=-20

Concentrated Loads (lb)

Vert: I=-1728(B) J=-1547(B) S=-1548(B) T=-1547(B) U=-1626(B) V=-1751(B) W=-1751(B) X=-1851(B) Y=-1327(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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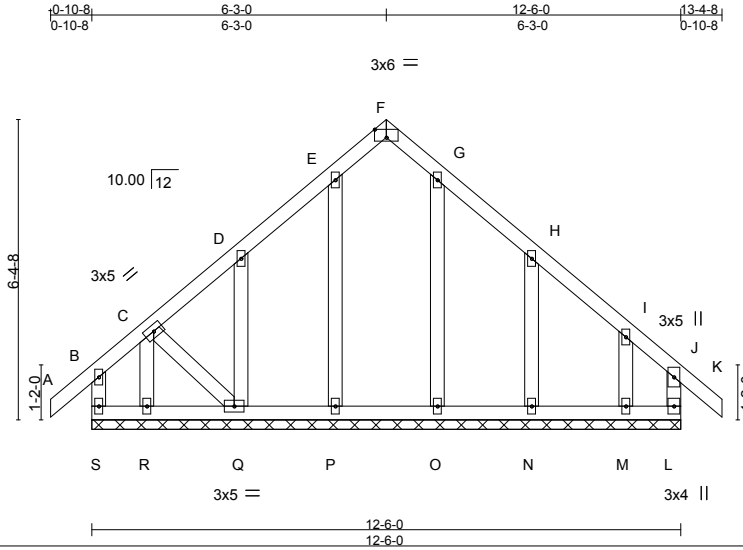


818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss E01	Truss Type GABLE	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485167
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:04 2017 Page 1
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Scale = 1:48.9

Plate Offsets (X,Y)-- [F:0-3-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	-0.00	K	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(TL)	-0.01	K	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(TL)	0.01	L	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)					Weight: 82 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: R-S,Q-R.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 12-6-0.
(lb) - Max Horz S=-432(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) except S=-153(LC 8), L=-121(LC 7), P=-125(LC 7), Q=-533(LC 8), R=-101(LC 6), N=-292(LC 9), M=-446(LC 9)
Max Grav All reactions 250 lb or less at joint(s) S, P, Q, O, N, M except L=277(LC 6), R=267(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD I-J=-278/92
BOT CHORD R-S=-327/384, Q-R=-327/384, P-Q=-59/339, O-P=-59/339, N-O=-59/339, M-N=-59/339, L-M=-59/339
WEBS D-Q=-128/338, C-R=-285/143, H-N=-128/335, I-M=-85/315, C-Q=-188/360

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint S, 121 lb uplift at joint L, 125 lb uplift at joint P, 533 lb uplift at joint Q, 101 lb uplift at joint R, 292 lb uplift at joint N and 446 lb uplift at joint M.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



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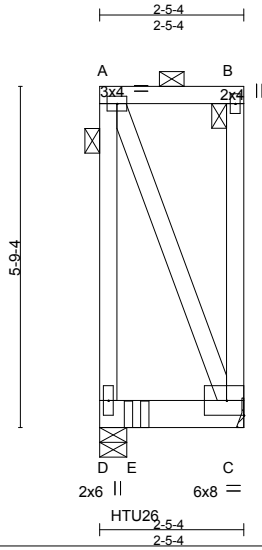


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485168
807184_MASTER	FG01	Flat Girder	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:04 2017 Page 1
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Scale = 1:39.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	Vert(LL) -0.00	C-D	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.50	Vert(TL) -0.01	C-D	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.26	Horz(TL) -0.00	D	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	(Matrix-M)	Wind(LL) 0.01	C-D	>999	240	Weight: 32 lb	FT = 20%
	Code IRC2009/TPI2007							

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING-

TOP CHORD 2-0-0 oc purlins: A-B, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) D=1053/0-5-8, C=364/Mechanical
Max Horz C=-349(LC 4)
Max Uplift D=-783(LC 4), C=-566(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-387/491
WEBS A-C=-472/472

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 783 lb uplift at joint D and 566 lb uplift at joint C.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 0-7-8 from the left end to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, C-D=-20
Concentrated Loads (lb)
Vert: E=-1245(B)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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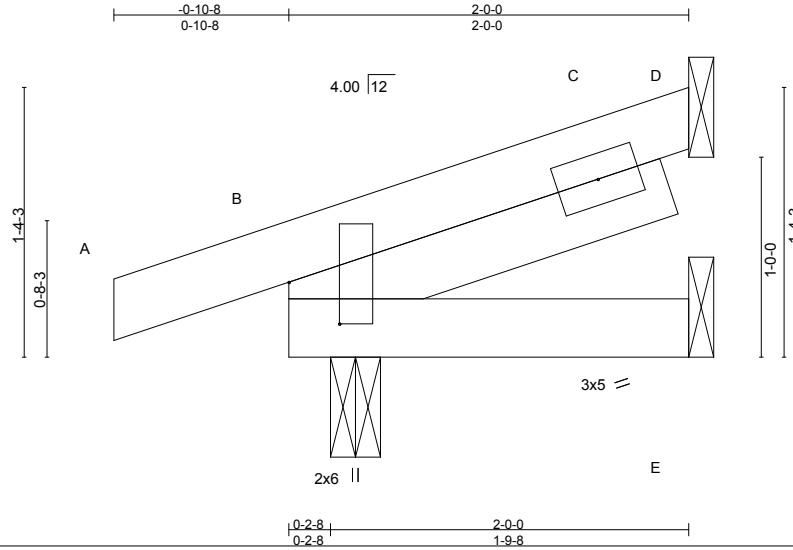
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss J01	Truss Type JACK-OPEN	Qty 12	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	I30485169
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:05 2017 Page 1
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Scale = 1:11.5

Plate Offsets (X,Y)-- [B:0-2-8,0-3-1]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	-0.00	H	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(TL)	-0.00	H	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	B	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.00	H	>999	240		
									Weight: 11 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x4 SP No.3 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) E=20/Mechanical, D=48/Mechanical, B=144/0-3-0
Max Horz B=68(LC 6)
Max Uplift E=-31(LC 6), D=-54(LC 6), B=-154(LC 6)
Max Grav E=29(LC 3), D=48(LC 1), B=144(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint E, 54 lb uplift at joint D and 154 lb uplift at joint B.
- 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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ENGINEERING BY
TRENCO
A Mitek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss J02	Truss Type JACK-OPEN	Qty 6	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	I30485170
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:05 2017 Page 1

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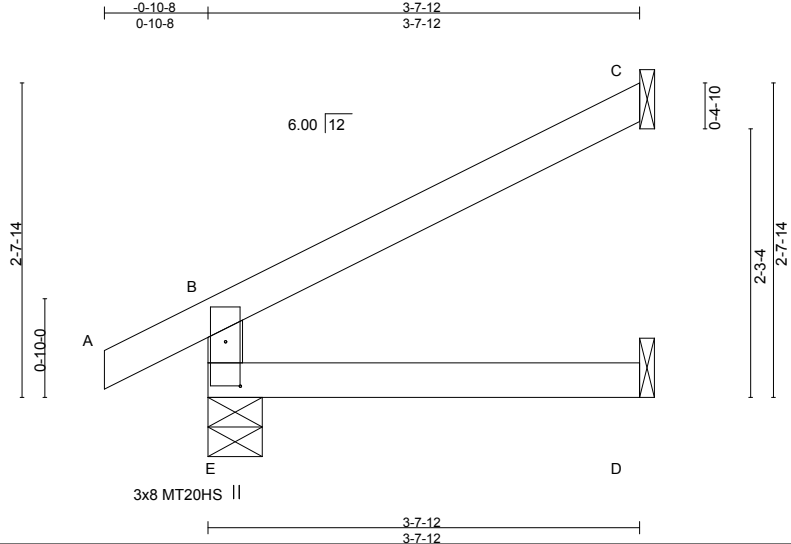


Plate Offsets (X,Y)-- [E:0-4-8,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.52	Vert(LL)	-0.01	D-E	>999	360	MT20HS	187/143
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(TL)	-0.02	D-E	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.02	C	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.02	D-E	>999	240	Weight: 14 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-7-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) E=208/0-5-8, C=90/Mechanical, D=38/Mechanical
 Max Horz E=179(LC 8)
 Max Uplift E=-109(LC 8), C=-100(LC 8), D=-1(LC 8)
 Max Grav E=208(LC 1), C=90(LC 1), D=65(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-E=-177/313

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint E, 100 lb uplift at joint C and 1 lb uplift at joint D.
 - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss J03	Truss Type HALF HIP GIRDER	Qty 2	Ply 1	H&H-NC/Dogwood/ 130485171
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:06 2017 Page 1
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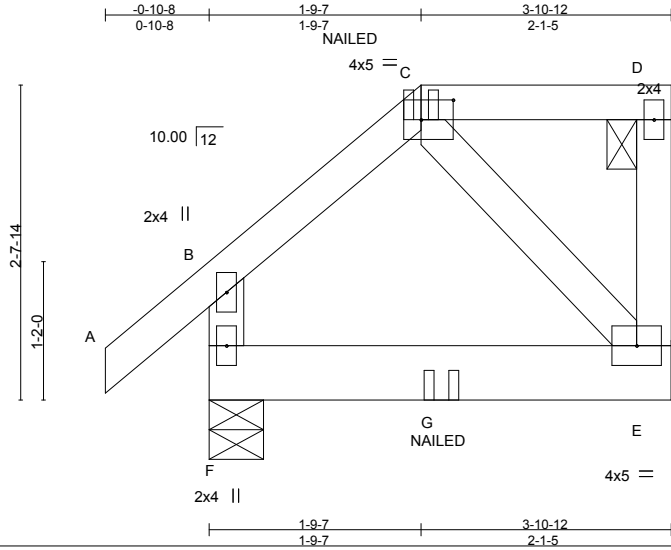


Plate Offsets (X,Y)-- [C:0-3-4,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.23	Vert(LL)	-0.00	E-F	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(TL)	-0.01	E-F	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(TL)	-0.00	E	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-M)	Wind(LL)	0.00	E-F	>999	Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except*
 B-F: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) F=240/0-5-8, E=158/Mechanical
 Max Horz F=204(LC 6)
 Max Uplift F=-141(LC 6), E=-123(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint F and 123 lb uplift at joint E.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-B=-60, B-C=-60, C-D=-60, E-F=-20
 Concentrated Loads (lb)
 Vert: C=-30(B) G=-18(B)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

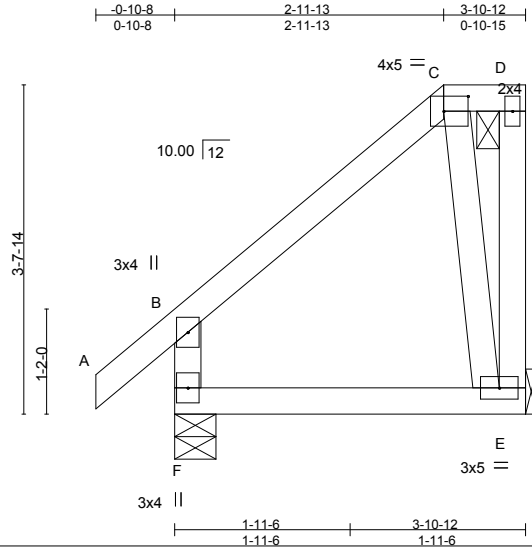


818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss J04	Truss Type HALF HIP	Qty 3	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485172
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:06 2017 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUBYNvpB-4RcQP3f8IINbEgc67sATsGwwsD7PWfEi9aaLywrup



Scale = 1:25.6

Plate Offsets (X,Y)-- [C:0-3-4,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	-0.01	E-F	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(TL)	-0.02	E-F	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(TL)	-0.00	E	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.01	E-F	>999	240	Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

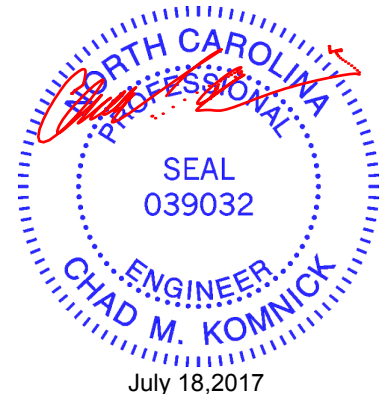
TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) E=135/Mechanical, F=214/0-5-8
Max Horz F=269(LC 8)
Max Uplift E=-143(LC 8), F=-56(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-E=-99/384

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint E and 56 lb uplift at joint F.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

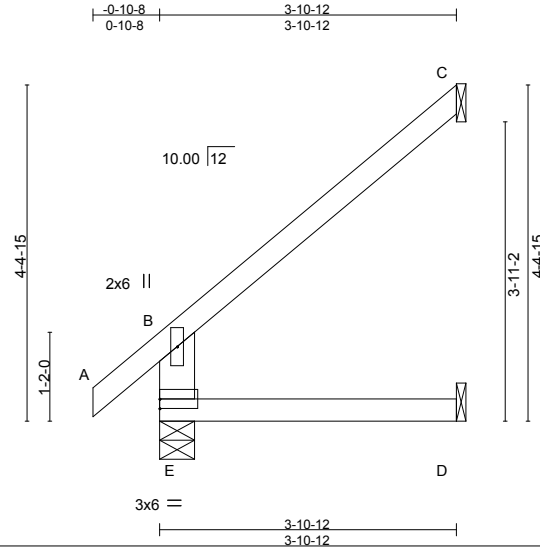
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485173
807184_MASTER	J05	JACK-OPEN	18	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:06 2017 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-4RcQPy3f8lInbEgc67sATsGvEwm?7QlfiE9aalLywrup



Scale = 1:30.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	-0.01	D-E	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.61	Vert(TL)	-0.02	D-E	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.07	C	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.04	D-E	>983	240	Weight: 17 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) E=221/0-5-8, C=93/Mechanical, D=41/Mechanical

Max Horz E=314(LC 8)
Max Uplift E=-25(LC 8), C=-164(LC 8), D=-35(LC 8)
Max Grav E=221(LC 1), C=93(LC 1), D=68(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint E, 164 lb uplift at joint C and 35 lb uplift at joint D.
- 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



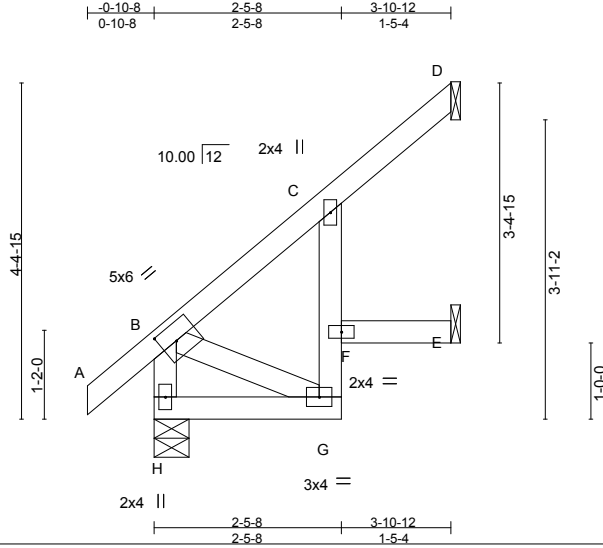
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485174
807184_MASTER	J06	JACK-OPEN	4	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:07 2017 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-Ye9ocl3Hv2tEDOFogrNP04p23JFwsrRoSMv86nywruo



Scale = 1:30.2

Plate Offsets (X,Y)-- [B:0-2-8,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.62	Vert(LL)	-0.02	G	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(TL)	-0.06	G	>719	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(TL)	-0.05	D	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.11	G	>389	240	Weight: 23 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-3-7 oc bracing.

REACTIONS. (lb/size) H=217/0-5-8, D=124/Mechanical, E=15/Mechanical
 Max Horz H=309(LC 8)
 Max Uplift H=-22(LC 8), D=-207(LC 8)
 Max Grav H=217(LC 1), D=124(LC 1), E=30(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

BOT CHORD G-H=-408/0
 WEBS B-G=-3/452

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint H and 207 lb uplift at joint D.
- 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

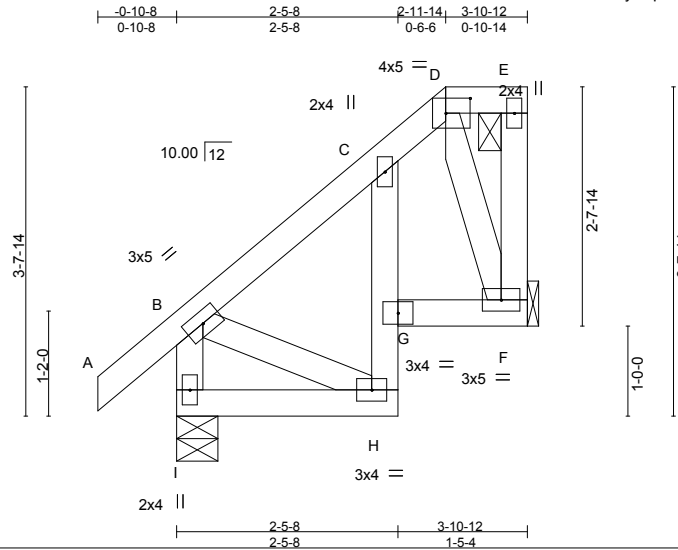


818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss J07	Truss Type HALF HIP	Qty 1	Ply 1	H&H-NC/Dogwood/ 130485175
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:07 2017 Page 1
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Scale = 1:25.6

Plate Offsets (X,Y)-- [D:0-3-4,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	-0.00	G	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(TL)	-0.01	H	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(TL)	-0.01	F	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.01	H	>999		
								Weight: 29 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: D-E.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) F=135/Mechanical, I=214/0-5-8
Max Horz I=269(LC 8)
Max Uplift F=-143(LC 8), I=-56(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

BOT CHORD H-I=-341/16
WEBS D-F=-100/269

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint F and 56 lb uplift at joint I.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

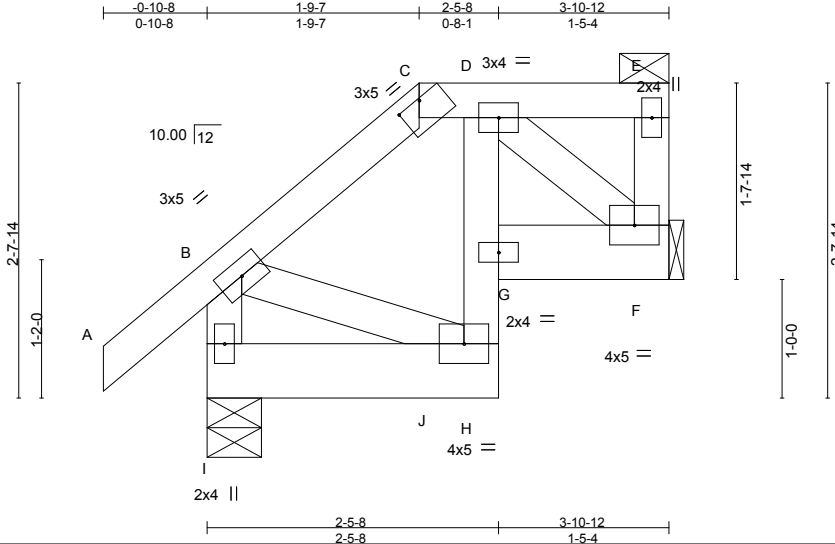
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485176
807184_MASTER	J08	HALF HIP GIRDER	1	1		

Builders FirstSource, Sumter, SC 29153 7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:08 2017 Page 1
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Scale = 1:19.4

Plate Offsets (X,Y)-- [C:0-2-8,0-0-3]	
LOADING (psf)	SPACING- 2-0-0
TCLL 20.0	Plate Grip DOL 1.15
TCDL 10.0	Lumber DOL 1.15
BCLL 0.0 *	Rep Stress Incr NO
BCDL 10.0	Code IRC2009/TPI2007
CSI.	DEFL. in (loc) l/defl L/d
TC 0.13	Vert(LL) -0.00 G >999 360
BC 0.13	Vert(TL) -0.00 H >999 240
WB 0.02	Horz(TL) -0.01 F n/a n/a
(Matrix-M)	Wind(LL) 0.00 H >999 240
PLATES	GRIP
MT20	244/190
Weight: 28 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2 *Except*
 D-H: 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except*
 B-I: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: C-E.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) F=158/Mechanical, I=240/0-5-8
 Max Horz I=205(LC 6)
 Max Uplift F=-123(LC 5), I=-141(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint F and 141 lb uplift at joint I.
 - 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 30 lb down and 74 lb up at 1-9-7 on top chord, and 25 lb down and 13 lb up at 1-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

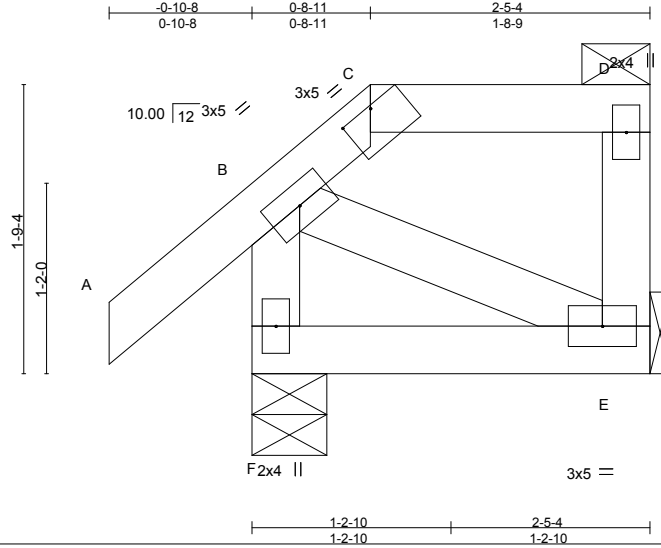
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-B=-60, B-C=-60, C-E=-60, H-I=-20, F-G=-20
 Concentrated Loads (lb)
 Vert: C=-30(B) J=-18(B)



Job 807184_MASTER	Truss J09	Truss Type HALF HIP	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	I30485177
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:08 2017 Page 1
ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-0qjBqe4vgM?5rXp?EYueZHMkpbObK6yh0eheEywrn



Scale = 1:14.1

Plate Offsets (X,Y)-- [C:0-2-8,0-0-3]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	-0.00	F	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(TL)	-0.00	E-F	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(TL)	-0.00	E	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-M)	Wind(LL)	0.00	F	>999	240		
									Weight: 15 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-5-4 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) F=162/0-5-8, E=71/Mechanical
Max Horz F=155(LC 8)
Max Uplift F=84(LC 8), E=60(LC 7)
Max Grav F=162(LC 1), E=78(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-10-8 to 2-3-8 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint F and 60 lb uplift at joint E.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



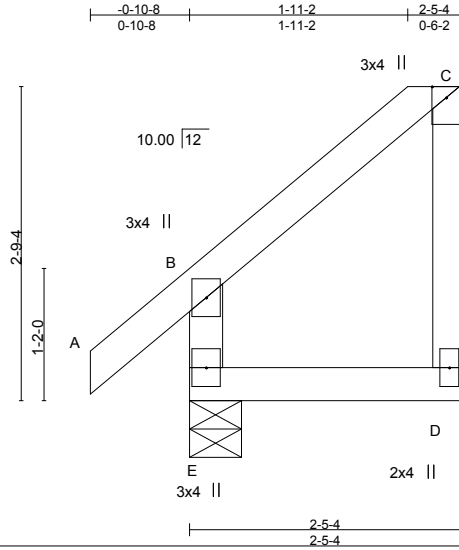
818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss J10	Truss Type HALF HIP	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	I30485178
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:08 2017 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-0qjBqe4vgM?5rXp?EYueZHMhajYwbKnyh0eheEywrun



Scale = 1:20.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.38	Vert(LL) -0.00	E	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.19	Vert(TL) -0.00	D-E	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(TL) -0.00	D	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)	Wind(LL) 0.00	D-E	>999	240		
	Code IRC2009/TPI2007						Weight: 15 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-5-4 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) D=71/Mechanical, E=162/0-5-8
Max Horz E=231(LC 8)
Max Uplift D=-141(LC 8), E=-22(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint D and 22 lb uplift at joint E.
 - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



July 18, 2017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314. **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

ENGINEERING BY
TRENCO
A Mitek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss J11	Truss Type JACK-OPEN	Qty 2	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485179
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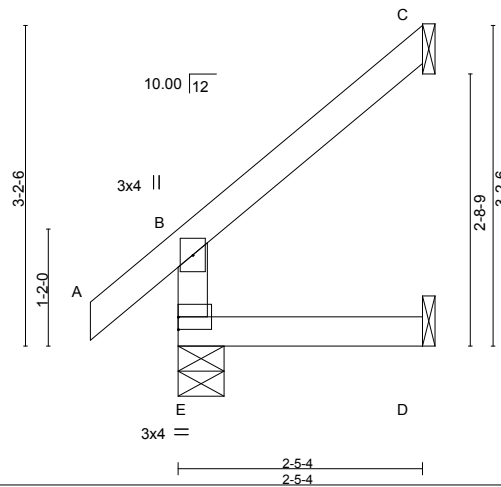
Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:09 2017 Page 1

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Scale = 1:23.0



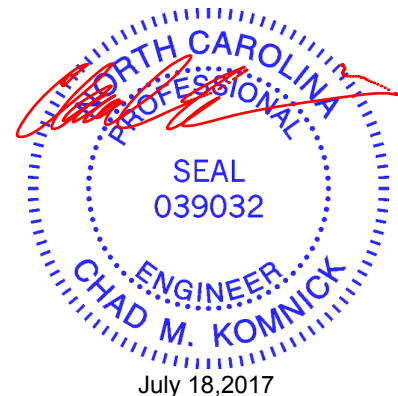
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.45	Vert(LL)	-0.00	D-E	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(TL)	-0.00	D-E	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.02	C	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.01	D-E	>999	240	Weight: 11 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-5-4 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) E=164/0-5-8, C=53/Mechanical, D=22/Mechanical
 Max Horz E=235(LC 8)
 Max Uplift E=-22(LC 8), C=-110(LC 8), D=-34(LC 8)
 Max Grav E=164(LC 1), C=53(LC 1), D=42(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint E, 110 lb uplift at joint C and 34 lb uplift at joint D.
 - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



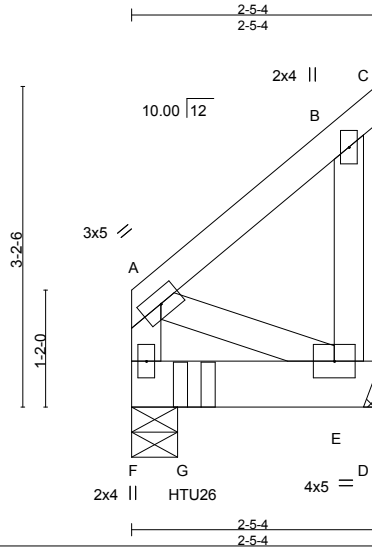
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485180
807184_MASTER	J12	JACK-CLOSED GIRDER	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:09 2017 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-V0HZ1_5XRg7xShOBnGPT5vWy7p_Kne5wgOEAgywrum



Scale = 1:23.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	-0.00	E-F	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.52	Vert(TL)	-0.01	E-F	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.03	Horz(TL)	-0.00	E	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.01	E-F	>999	240	Weight: 18 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-5-4 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (lb/size) F=1096/0-5-8, E=408/Mechanical
 Max Horz F=151(LC 6)
 Max Uplift F=-269(LC 4), E=-240(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

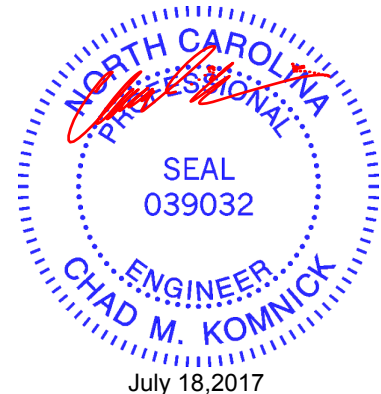
- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 269 lb uplift at joint F and 240 lb uplift at joint E.
 - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 8) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 0-7-8 from the left end to connect truss(es) to back face of bottom chord.
 - 9) Fill all nail holes where hanger is in contact with lumber.
 - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)
 Vert: A-B=-60, B-C=-20, D-F=-20

Concentrated Loads (lb)
 Vert: G=-1331(B)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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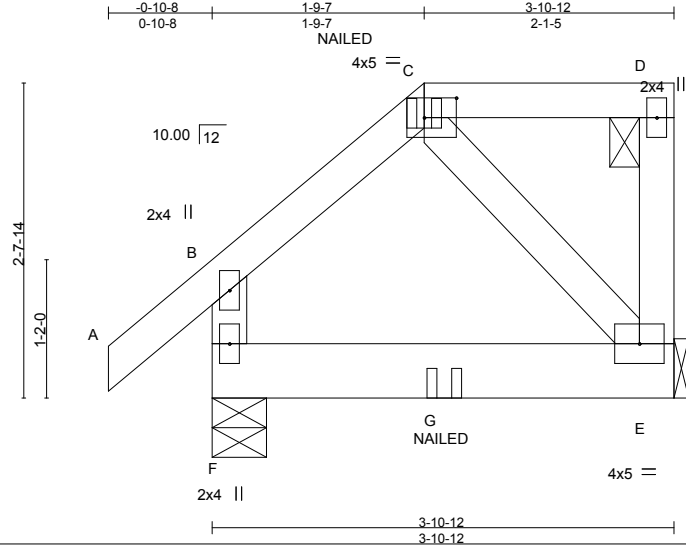
ENGINEERING BY
TRENCO
 A Mitek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss J13	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485181
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:09 2017 Page 1
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Scale = 1:19.4

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.00 E-F >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	-0.01 E-F >999 240				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.02	Horz(TL)	-0.00 E n/a n/a				
BCDL	10.0	Code IRC2009/TP12007		(Matrix-M)		Wind(LL)	0.00 E-F >999 240			Weight: 25 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2 *Except* B-F: 2x4 SP No.3		

REACTIONS. (lb/size) F=240/0-5-8, E=158/Mechanical
Max Horz F=205(LC 6)
Max Uplift F=-141(LC 6), E=-123(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint F and 123 lb uplift at joint E.
 - 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

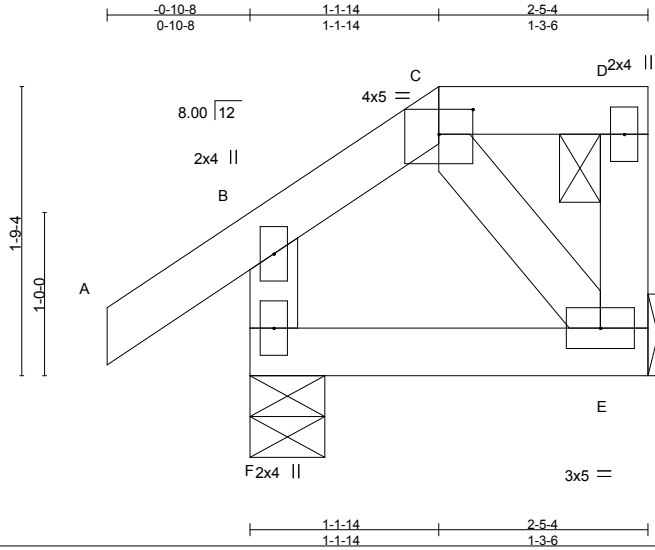
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-C=-60, C-D=-60, E-F=-20
Concentrated Loads (lb)
Vert: C=-30(F) G=-18(F)



Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	
807184_MASTER	J14	HALF HIP	1	1		I30485182

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:10 2017 Page 1
 ID:PFhEEKzMO67Kz1KM4J4YUByNvpB-zCrxFK69CzFo4rzNLzw6eiRfsXGs3DKf8K7oj6ywrul



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	2-0-0	Plate Grip DOL	1.15	TC	0.20	in (loc)	I/defl	L/d	MT20	244/190
TCDL	10.0	1.15	Lumber DOL	1.15	BC	0.04	Vert(LL)	-0.00	F	>999	360
BCLL	0.0 *	YES	Rep Stress Incr	YES	WB	0.04	Vert(TL)	-0.00	E-F	>999	240
BCDL	10.0	Code IRC2009/TP12007	Code	IRC2009/TP12007	(Matrix-M)		Horz(TL)	-0.00	E	n/a	n/a
							Wind(LL)	0.00	F	>999	240
										Weight: 14 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-5-4 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) F=162/0-5-8, E=71/Mechanical
 Max Horz F=141(LC 8)
 Max Uplift F=-96(LC 8), E=-56(LC 7)
 Max Grav F=162(LC 1), E=71(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-10-8 to 2-3-8 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint F and 56 lb uplift at joint E.
 - 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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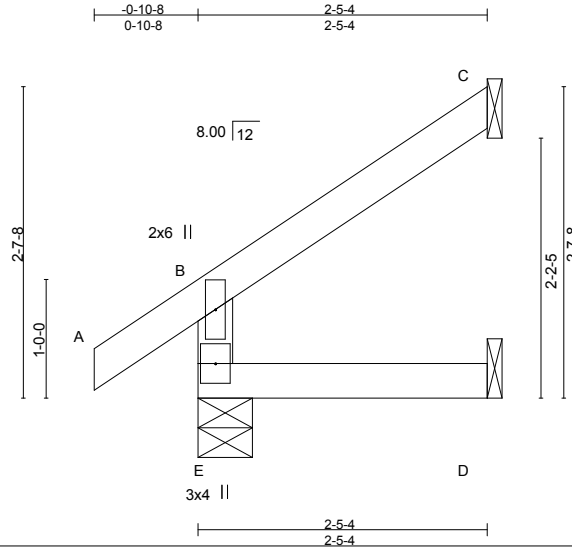


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485183
807184_MASTER	J15	JACK-OPEN	3	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:10 2017 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-zCrxFK69CzFo4rzNLzW6eiRe8XEY3DHF8K7oj6ywrul



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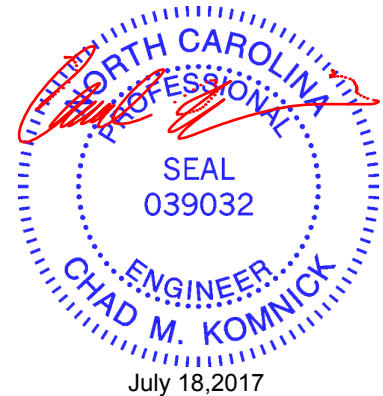
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.31	Vert(LL)	-0.00	D-E	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(TL)	-0.00	D-E	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.01	C	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.01	D-E	>999	240	Weight: 11 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-5-4 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) E=164/0-5-8, C=54/Mechanical, D=22/Mechanical
Max Horz E=189(LC 8)
Max Uplift E=-65(LC 8), C=-84(LC 8), D=-17(LC 8)
Max Grav E=164(LC 1), C=54(LC 1), D=42(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint E, 84 lb uplift at joint C and 17 lb uplift at joint D.
 - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

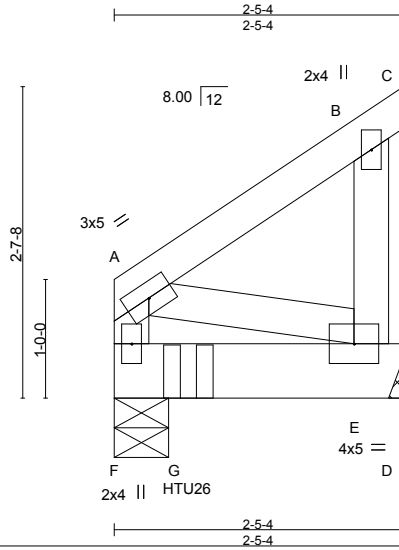
ENGINEERING BY
TRENCO
A Mitek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485184
807184_MASTER	J16	JACK-CLOSED GIRDER	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:11 2017 Page 1
ID:PFhEEkzM06?Kz1KM4J4YUByNvpB-RPPJSg6ozHNfi?YavgRLAw_sZxUOogEON_tLFZywruck



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	-0.00	E-F	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.53	Vert(TL)	-0.01	E-F	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(TL)	-0.00	E	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.01	E-F	>999	240	Weight: 16 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-5-4 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (lb/size) F=1103/0-5-8, E=410/Mechanical
Max Horz F=120(LC 6)
Max Uplift F=-266(LC 4), E=-201(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 266 lb uplift at joint F and 201 lb uplift at joint E.
- 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 8) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 0-7-8 from the left end to connect truss(es) to back face of bottom chord.
- 9) Fill all nail holes where hanger is in contact with lumber.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-C=-20, D-F=-20
Concentrated Loads (lb)
Vert: G=-1341(B)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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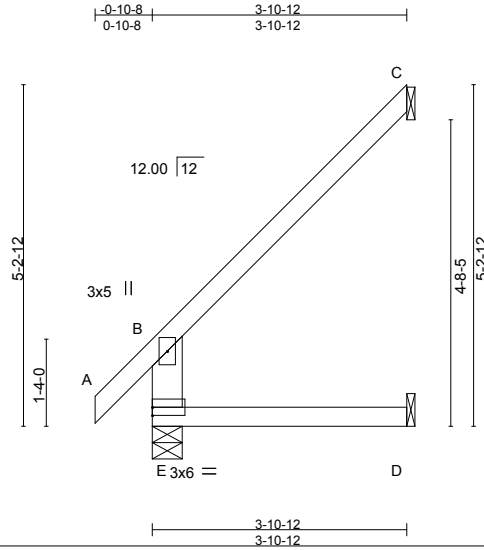
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485185
807184_MASTER	J17	JACK-OPEN	19	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:11 2017 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-RPPJSg6ozHNfi?YavgRLAw_jHxPUogXON_tLFZywrnk



Scale = 1:35.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.67	Vert(LL)	-0.01	D-E	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(TL)	-0.02	D-E	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.12	C	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.06	D-E	>706	240	Weight: 19 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-10-8 oc bracing.

REACTIONS.

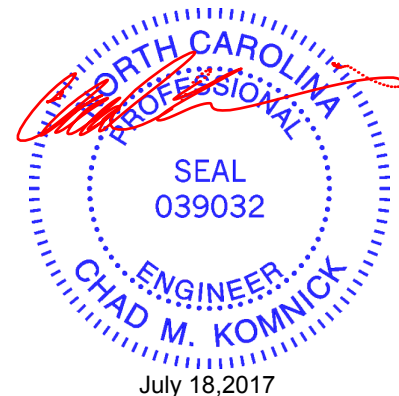
(lb/size) E=221/0-5-8, C=92/Mechanical, D=42/Mechanical
 Max Horz E=376(LC 8)
 Max Uplift C=-204(LC 8), D=-58(LC 8)
 Max Grav E=221(LC 1), C=92(LC 1), D=68(LC 3)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-265/50

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint C and 58 lb uplift at joint D.
- 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314. **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

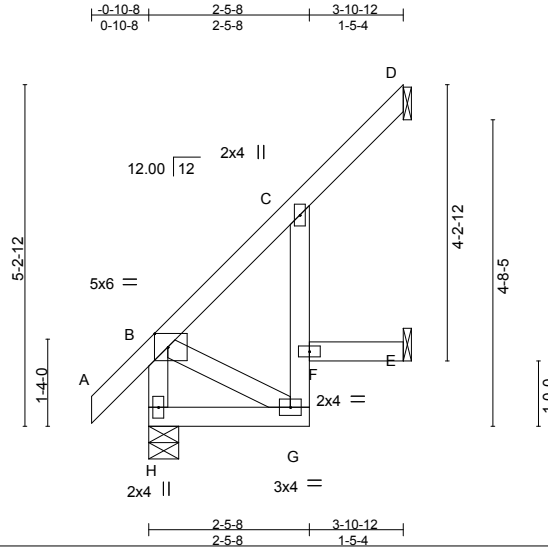


818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss J18	Truss Type JACK-OPEN	Qty 3	Ply 1	H&H-NC/Dogwood/ I30485186
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:11 2017 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-RPPJSg6ozHNfi?YavgRLAw_hrcsoexON_tLFZywruck



Scale = 1:35.3

Plate Offsets (X,Y)-- [B:0-2-7_Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.83	Vert(LL)	-0.03	G	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(TL)	-0.07	G	>656	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(TL)	-0.09	D	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.16	G	>280	240	Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-5-15 oc bracing.

REACTIONS. (lb/size) H=217/0-5-8, D=124/Mechanical, E=15/Mechanical
Max Horz H=370(LC 8)
Max Uplift D=-268(LC 8)
Max Grav H=217(LC 1), D=124(LC 1), E=30(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD C-D=-329/81
BOT CHORD G-H=-489/0
WEBS B-G=-3/560

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 268 lb uplift at joint D.
- 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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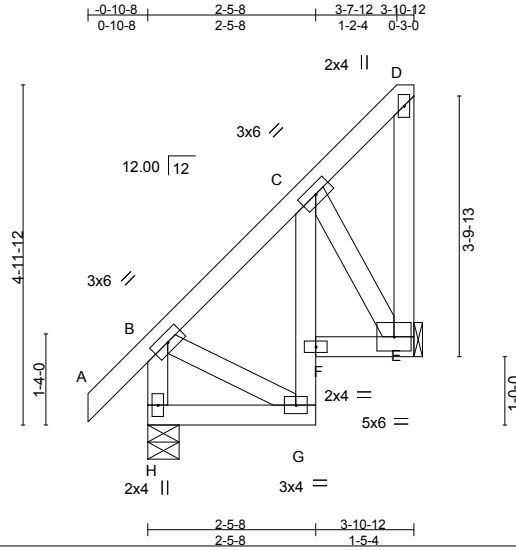


818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss J19	Truss Type HALF HIP	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485187
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:12 2017 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-vbzhg07QkbVWJ97mTOzaj7W?FKw_X6AXcecvn?ywrui



Scale = 1:33.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.21	Vert(LL) -0.00	H	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.19	Vert(TL) -0.00	G	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Horz(TL) -0.01	E	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)	Wind(LL) 0.00	G	>999	240	Weight: 34 lb	FT = 20%
	Code IRC2009/TPI2007							

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-7-5 oc bracing.

REACTIONS. (lb/size) H=214/0-5-8, E=135/Mechanical

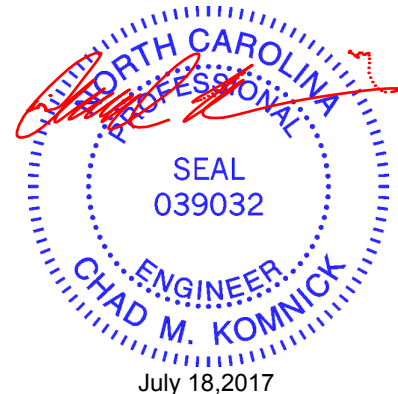
Max Horz H=365(LC 8)
Max Uplift E=-255(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

BOT CHORD G-H=-460/12
WEBS C-E=-92/349, B-G=0/339

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 255 lb uplift at joint E.
- 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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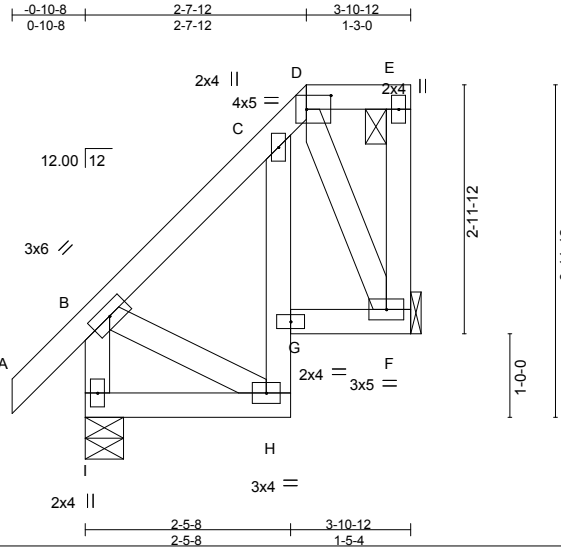
818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss J20	Truss Type HALF HIP	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485188
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:12 2017 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-vbzg07QkbVWJ97mTOzaj7W?FKwZX6QXcecvn?ywruij



Scale = 1:27.6

Plate Offsets (X,Y)-- [D:0-3-8,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.00	G	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(TL)	-0.00	H	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(TL)	-0.01	F	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.01	H	>999	240	Weight: 32 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: D-E.
 BOT CHORD Rigid ceiling directly applied or 9-6-11 oc bracing.

REACTIONS. (lb/size) I=214/0-5-8, F=135/Mechanical
 Max Horz I=302(LC 8)
 Max Uplift I=31(LC 8), F=-161(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

BOT CHORD H-I=-376/11
 WEBS D-F=-90/294, B-H=-2/284

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint I and 161 lb uplift at joint F.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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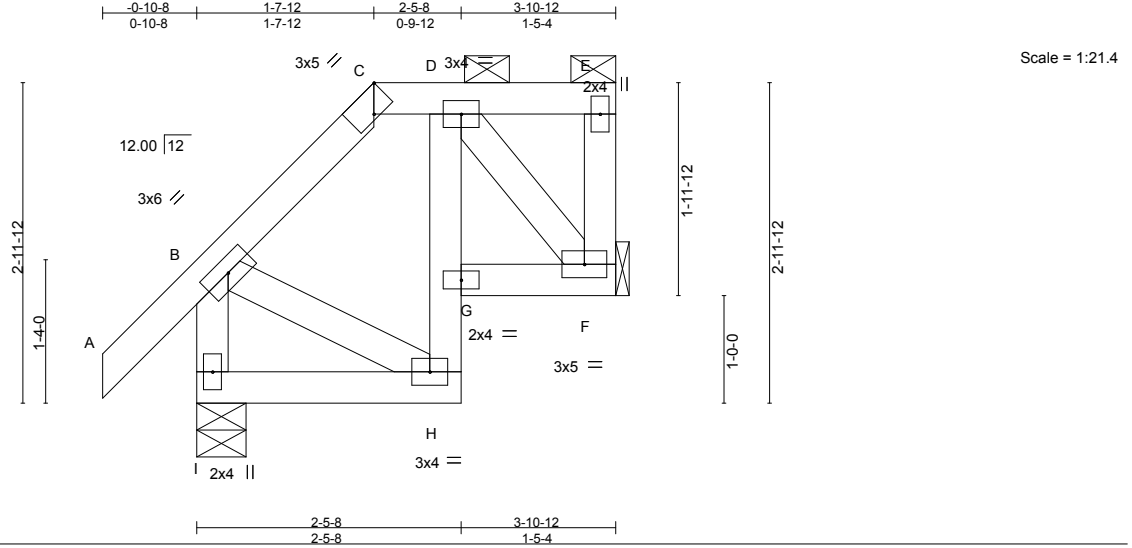
818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss J21	Truss Type HALF HIP	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	I30485189
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:13 2017 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-nN4tL82VudNxDjy05UpGL3A?kGoGZvhrIMSJRyrrui



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.21	Vert(LL)	-0.00	MT20	244/190	Weight:	28 lb
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	-0.00			FT =	20%
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(TL)	-0.01				
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.00				

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: C-E.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) F=135/Mechanical, I=214/0-5-8
 Max Horz I=241(LC 8)
 Max Uplift F=-105(LC 7), I=-75(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 BOT CHORD H-I=-261/5

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint F and 75 lb uplift at joint I.
 - 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIT/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

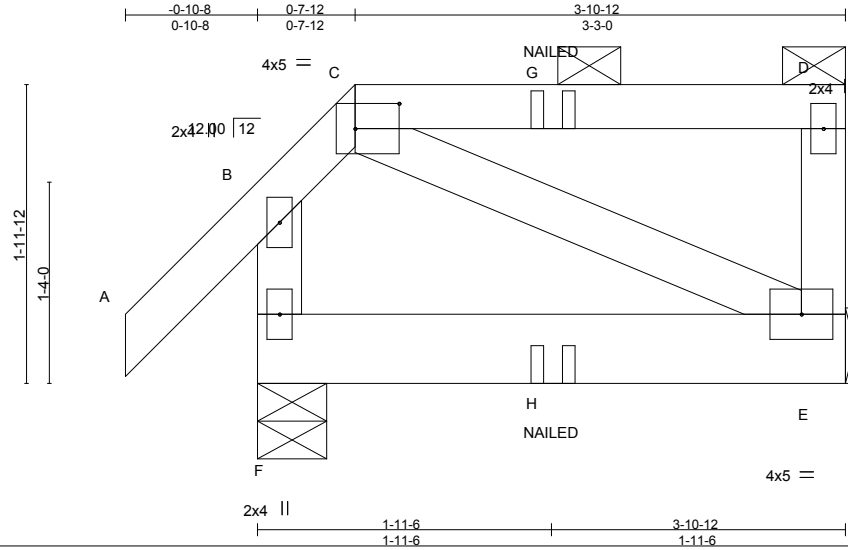


818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss J22	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	H&H-NC/Dogwood/ 130485190
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:13 2017 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-NnX4tL82VudNxJiy05UpGL3ANKIEGashrIMSJRywrui



Scale = 1:15.3

Plate Offsets (X,Y)-- [C:0-3-8,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	-0.00	E-F	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(TL)	-0.00	E-F	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.01	Horz(TL)	-0.00	E	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.00	E-F	>999	240		
									Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except*
B-F: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) F=214/0-5-8, E=136/Mechanical
Max Horz F=177(LC 6)
Max Uplift F=-123(LC 6), E=-94(LC 5)
Max Grav F=214(LC 1), E=140(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint F and 94 lb uplift at joint E.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-C=-60, C-D=-60, E-F=-20
Concentrated Loads (lb)
Vert: H=-0(B)



July 18, 2017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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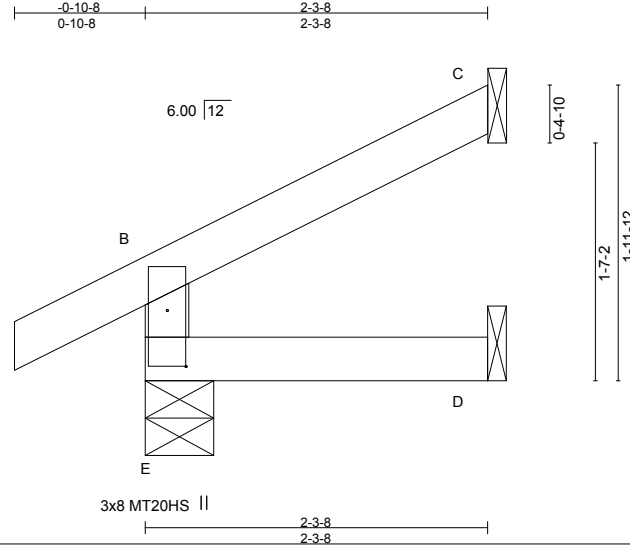
818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss J23	Truss Type JACK-OPEN	Qty 1	Ply 1	H&H-NC/Dogwood/ I30485191
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:13 2017 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUBYNvpB-NnX4tL82VudNxJiy05UpGL39IkG6Ga0hrIMSJRywrui



Scale = 1:15.4

Plate Offsets (X,Y)-- [E:0-4-8,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	-0.00	E	>999	MT20HS	187/143
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(TL)	-0.00	D-E	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.01	C	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.00	D-E	>999		
								Weight: 9 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-3-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) E=160/0-5-8, C=49/Mechanical, D=19/Mechanical
 Max Horz E=138(LC 8)
 Max Uplift E=98(LC 8), C=59(LC 8), D=4(LC 8)
 Max Grav E=160(LC 1), C=49(LC 1), D=38(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint E, 59 lb uplift at joint C and 4 lb uplift at joint D.
 - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

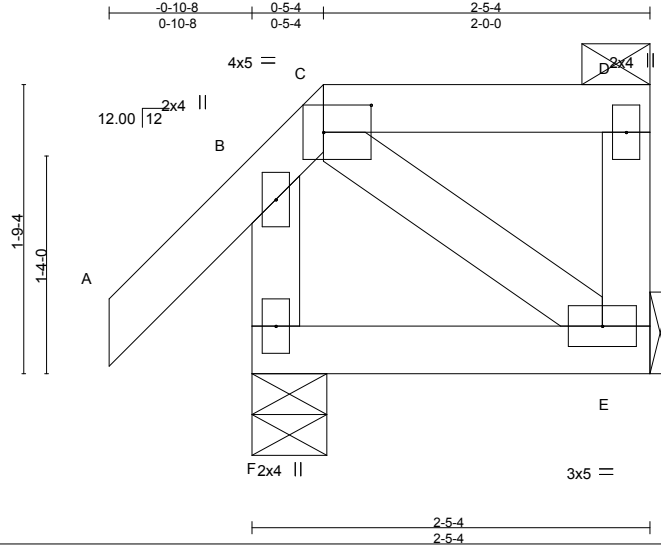


818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss J24	Truss Type HALF HIP	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	I30485192
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:14 2017 Page 1
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Scale = 1:14.1

Plate Offsets (X,Y)-- [C:0-3-8,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.00	F	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(TL)	-0.00	E-F	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(TL)	-0.00	E	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-M)	Wind(LL)	0.00	F	>999	240		
									Weight: 16 lb	FT = 20%

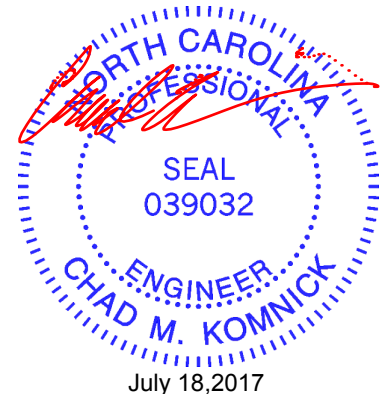
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-5-4 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (lb/size) F=151/0-5-8, E=70/Mechanical
 Max Horz F=163(LC 8)
 Max Uplift F=72(LC 8), E=61(LC 7)
 Max Grav F=151(LC 1), E=80(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-10-8 to 2-3-8 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint F and 61 lb uplift at joint E.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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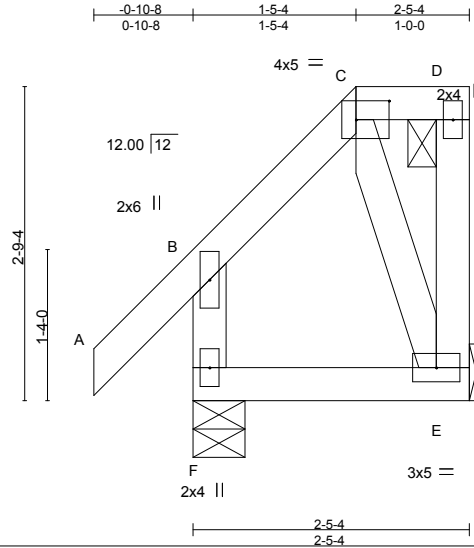


818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss J25	Truss Type HALF HIP	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	I30485193
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:14 2017 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-r_5S4h9gGCIEZTH8ap?2oYclm8dR?0Aq3y5?suywruh



Scale = 1:20.3

Plate Offsets (X,Y)-- [C:0-3-8,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.40	Vert(LL)	-0.00	F	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(TL)	-0.00	E-F	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(TL)	-0.00	E	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.00	E-F	>999	240		
									Weight: 18 lb	FT = 20%

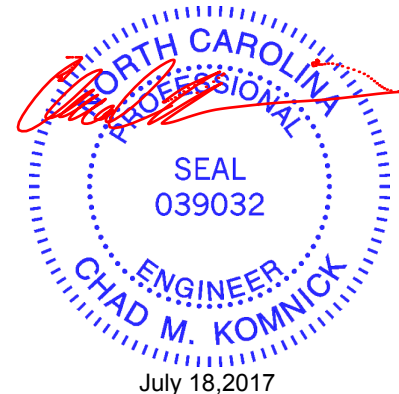
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-5-4 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) F=162/0-5-8, E=71/Mechanical
Max Horz F=228(LC 8)
Max Uplift F=-31(LC 8), E=-113(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint F and 113 lb uplift at joint E.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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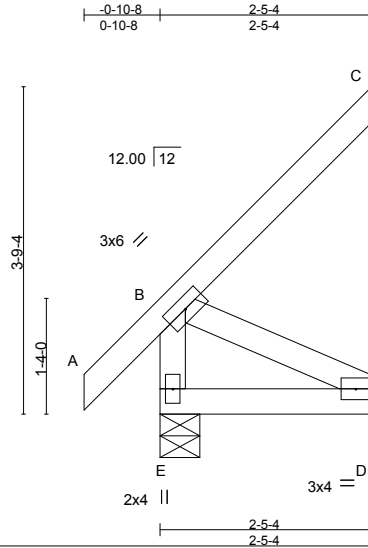


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485194
807184_MASTER	J26	JACK-OPEN	2	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:14 2017 Page 1
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Scale = 1:26.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.00	D-E	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(TL)	-0.00	D-E	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(TL)	-0.00	C	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.00	E	****	240		
									Weight: 16 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-5-4 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) E=165/0-5-8, C=53/Mechanical, D=23/Mechanical
Max Horz E=281(LC 8)
Max Uplift E=-7(LC 6), C=-80(LC 8), D=-113(LC 8)
Max Grav E=165(LC 1), C=53(LC 1), D=46(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD D-E=-349/0
WEBS B-D=-0/389

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint E, 80 lb uplift at joint C and 113 lb uplift at joint D.
 - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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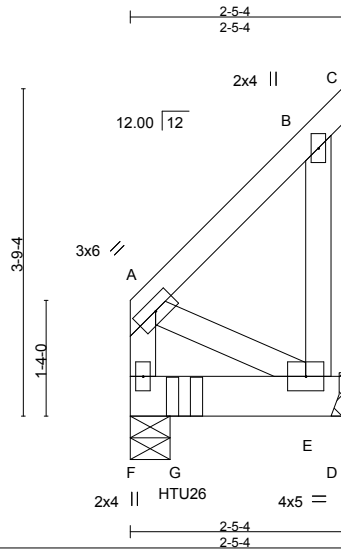
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485195
807184_MASTER	J27	JACK-CLOSED GIRDER	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:15 2017 Page 1
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Scale = 1:26.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	-0.00	E-F	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.53	Vert(TL)	-0.01	E-F	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.03	Horz(TL)	-0.00	E	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.01	E-F	>999	240	Weight: 19 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-5-4 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (lb/size) F=1104/0-5-8, E=411/Mechanical
Max Horz F=181(LC 6)
Max Uplift F=-277(LC 4), E=-288(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 277 lb uplift at joint F and 288 lb uplift at joint E.
 - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 8) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 0-7-8 from the left end to connect truss(es) to back face of bottom chord.
 - 9) Fill all nail holes where hanger is in contact with lumber.
 - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)
Vert: A-B=-60, B-C=-20, D-F=-20

Concentrated Loads (lb)
Vert: G=-1342(B)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

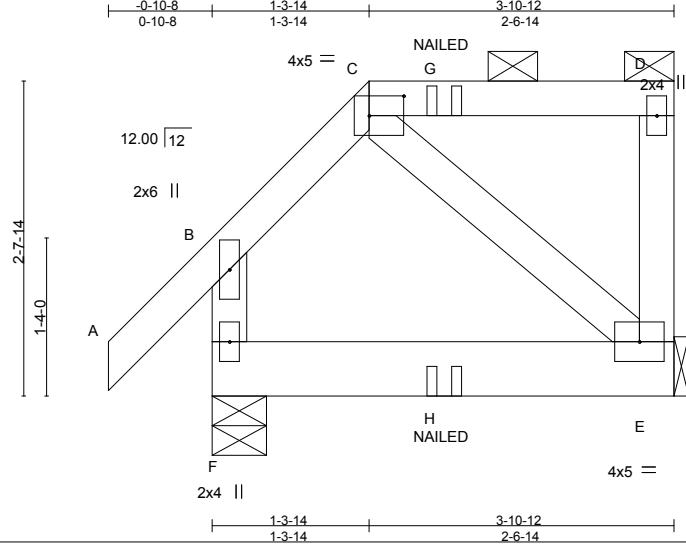
818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss J28	Truss Type HALF HIP GIRDER	Qty 2	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485196
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:15 2017 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-JAeq1911Wt5AcsL8WWHLI8VCYzMKUE_lcrZOKywrug



Scale = 1:19.4

Plate Offsets (X,Y)-- [C:0-3-8,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	-0.00	E-F	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(TL)	-0.01	E-F	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(TL)	-0.00	E	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-M)	Wind(LL)	0.00	E-F	>999	240		
									Weight: 26 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except*
 B-F: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) F=238/0-5-8, E=160/Mechanical
 Max Horz F=218(LC 6)
 Max Uplift F=-130(LC 6), E=-128(LC 5)
 Max Grav F=238(LC 1), E=162(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint F and 128 lb uplift at joint E.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-B=-60, B-C=-60, C-D=-60, E-F=-20
 Concentrated Loads (lb)
 Vert: G=-30(B) H=-18(B)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



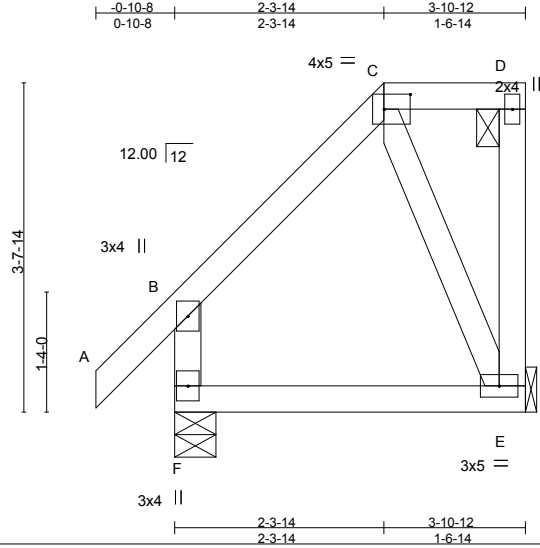
818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss J29	Truss Type HALF HIP	Qty 2	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485197
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:16 2017 Page 1

ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-nMCCVNAwnp?yomRXiE1WtzhLyH_TwJ7XGa6wmywruF



Scale = 1:25.6

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.01 E-F >999 360	MT20	244/190	Weight: 26 lb	FT = 20%
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	-0.02 E-F >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(TL)	-0.00 E n/a n/a				
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.01 E-F >999 240				

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (lb/size) F=214/0-5-8, E=135/Mechanical
 Max Horz F=282(LC 8)
 Max Uplift F=-48(LC 8), E=-137(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS C-E=-66/314

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint F and 137 lb uplift at joint E.
 - 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

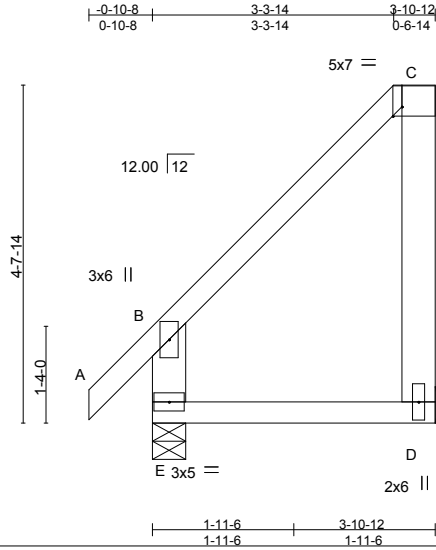


Job 807184_MASTER	Truss J30	Truss Type HALF HIP	Qty 2	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485198
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:16 2017 Page 1

ID:PFhEEkzM06?Kz1KM4J4YUBvNvpB-nMCCVNAwnp?yomRXiE1Wtzhd?yCwTxm7XGa6wmywruF



Scale: 3/8"=1'

Plate Offsets (X,Y)-- [C:0-1-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	-0.00	D-E	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(TL)	-0.01	D-E	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	D	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.02	D-E	>999	240	Weight: 28 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) D=127/Mechanical, E=214/0-5-8
 Max Horz E=366(LC 8)
 Max Uplift D=-255(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD C-D=-86/335

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 255 lb uplift at joint D.
- 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

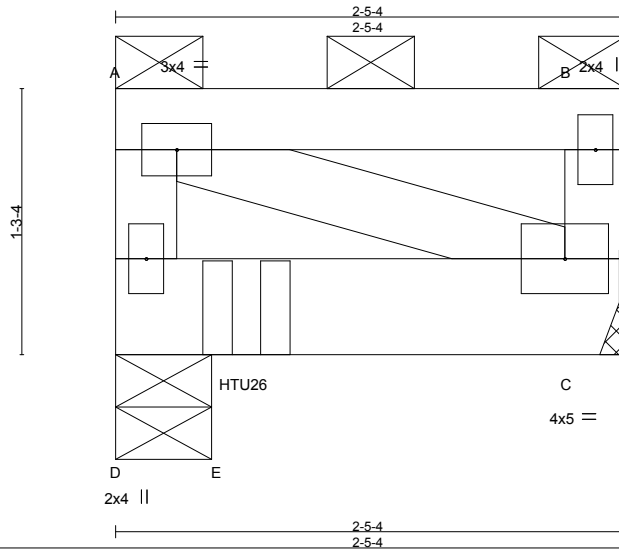


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485199
807184_MASTER	J32	Flat Girder	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:16 2017 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-nMCCVNAwnp?yomRXiE1Wtzj7yBLTxh7XGa6wmywruF



Scale = 1:11.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	-0.00	C-D	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(TL)	-0.01	C-D	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.01	Horz(TL)	0.00	C	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.01	C-D	>999	240	Weight: 14 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING-

TOP CHORD 2-0-0 oc purlins: A-B, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) D=1128/0-5-8, C=385/Mechanical

Max Horz D=-58(LC 4)
Max Uplift D=-339(LC 4), C=-134(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 339 lb uplift at joint D and 134 lb uplift at joint C.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 0-7-8 from the left end to connect truss(es) to front face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-B=-60, C-D=-20

Concentrated Loads (lb)

Vert: E=-1342(F)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

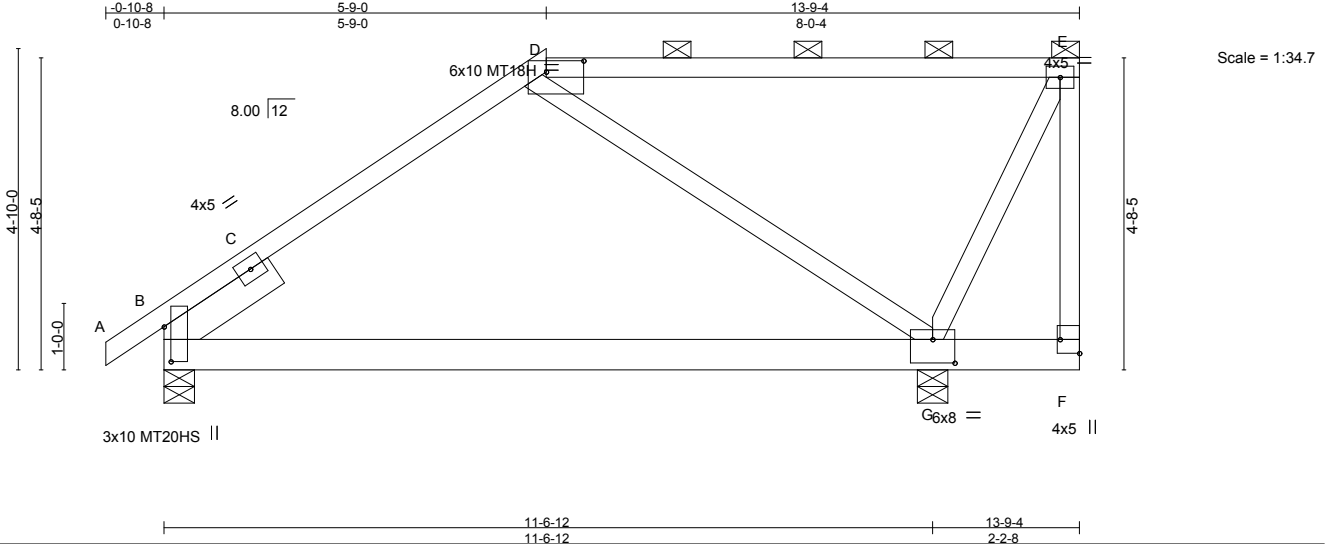
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485200
807184_MASTER	J33	Half Hip	1	1		

Builders FirstSource, Sumter, SC 29153 7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:17 2017 Page 1
 ID:PFhEEKzM06?Kz1KM4J4YUBvNvpB-GZmajjBYY77pQw?jFxyIQAEhALY1CIAGlwKgSCywrue



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	-0.10	G-J	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(TL)	-0.25	G-J	>566	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.44	Horz(TL)	0.03	B	n/a	MT18H	244/190
BCDL 10.0	Code IRC2009/TP12007		(Matrix-S)	Wind(LL)	-0.06	G-J	>999		Weight: 84 lb FT = 20%

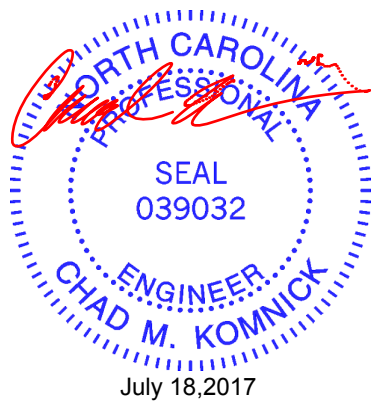
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-11-12

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-1-15 max.): D-E.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) B=502/0-5-8, G=640/0-5-8
 Max Horz B=289(LC 7)
 Max Uplift B=-237(LC 8), G=-321(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-602/14, C-D=-270/433
 BOT CHORD B-G=-569/301
 WEBS D-G=-406/718, E-G=-204/454

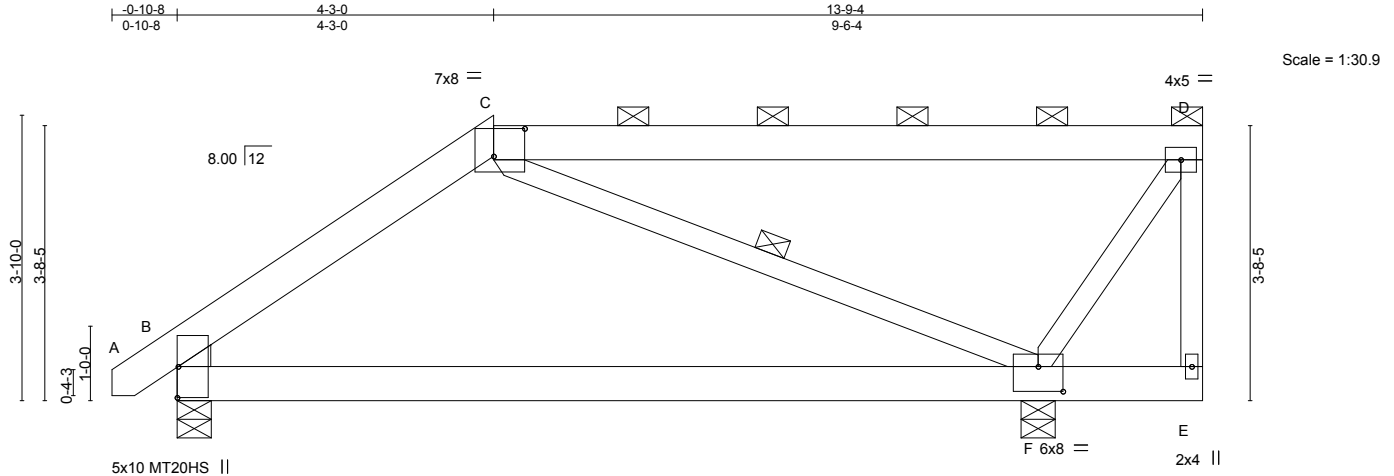
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 237 lb uplift at joint B and 321 lb uplift at joint G.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485201
807184_MASTER	J34	HALF HIP	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:17 2017 Page 1
ID:PFhEEKz0M6?Kz1KM4J4YUBvNvpB-GZmajjBYY77pQw?jFxyIQAEisLzuCLCGlwKgSCywrue



Scale = 1:30.9

Plate Offsets (X,Y)--	[C:0-5-0,0-4-7], [F:0-4-0,0-4-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.08	F-I	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(TL)	-0.19	F-I	>741	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.24	Horz(TL)	0.01	B	n/a	n/a		
BCDL 10.0	Code	IRC2009/TPI2007	(Matrix-S)	Wind(LL)	-0.03	F-I	>999	240		
									Weight: 91 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): C-D.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt C-F

REACTIONS.

(lb/size) B=493/0-5-8, F=641/0-5-8
 Max Horz B=212(LC 8)
 Max Uplift B=-191(LC 8), F=-319(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD B-C=-512/515
 BOT CHORD B-F=-552/430
 WEBS C-F=-551/823, D-F=-267/564

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint B and 319 lb uplift at joint F.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

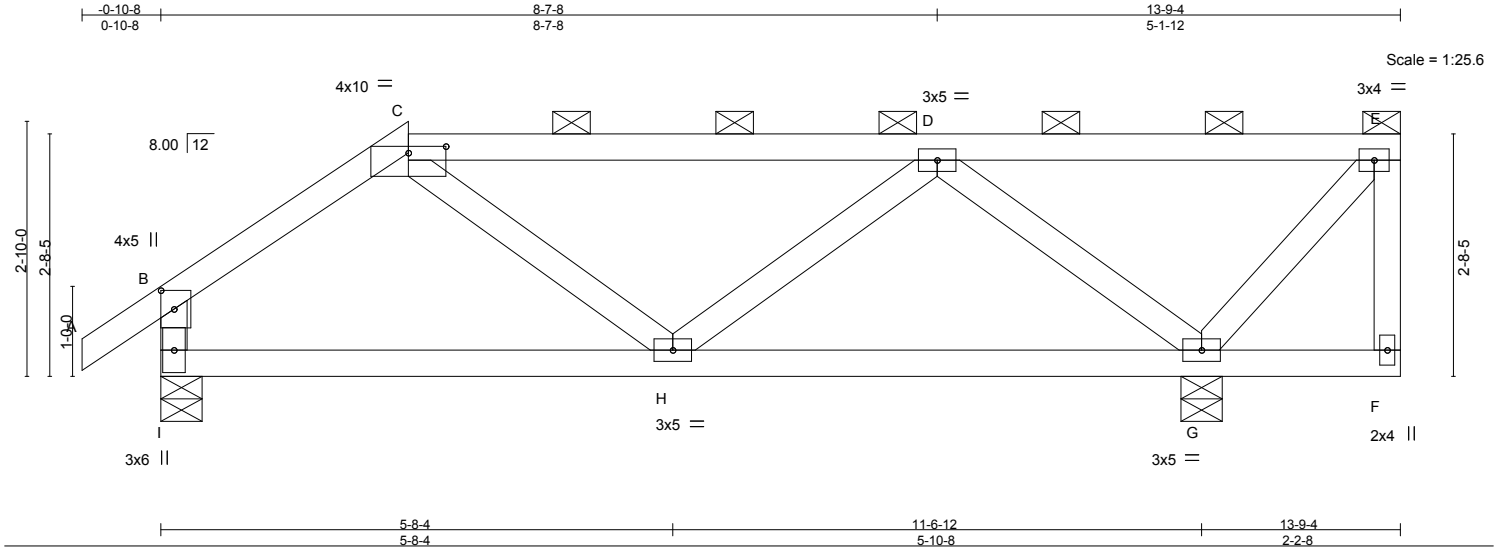


818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss J35	Truss Type Half Hip	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485202
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:18 2017 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-klKzw3CBJRgG24awpf4_zOmw7lwHxoiQ_a3D?fywrud



LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.02	G-H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(TL)	-0.07	G-H	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(TL)	0.01	G	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.04	G-H	>999	240	Weight: 68 lb	FT = 20%

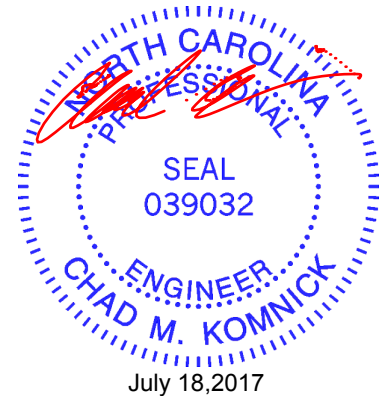
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): C-E.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) I=506/0-5-8, G=634/0-5-8
Max Horz I=198(LC 8)
Max Uplift I=201(LC 8), G=-351(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-511/482, C-D=-452/407, B-I=-434/493
BOT CHORD H-I=-452/368, G-H=-478/423
WEBS D-G=-645/768

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 lb uplift at joint I and 351 lb uplift at joint G.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss J36	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485203
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:19 2017 Page 1
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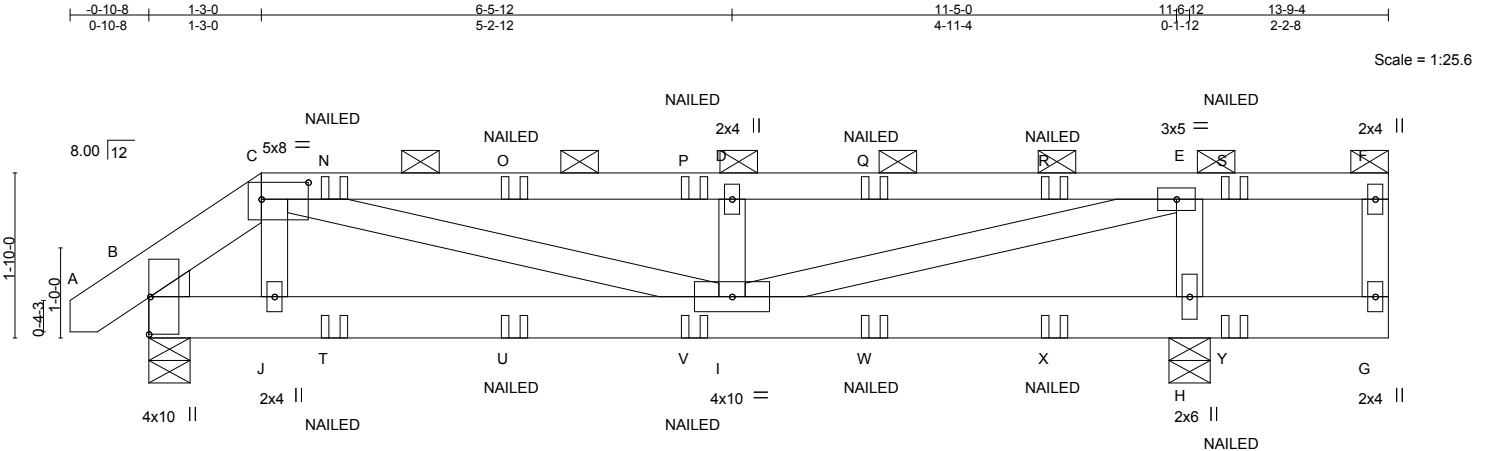


Plate Offsets (X,Y)-- [C:0-6-4,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	Vert(LL)	-0.03	I	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(TL)	-0.07	I	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.28	Horz(TL)	0.00	B	n/a		
BCDL 10.0	Rep Stress Incr NO	(Matrix-M)	Wind(LL)	0.05	I	>999	Weight: 79 lb	FT = 20%
	Code IRC2009/TP12007							

LUMBER-
 TOP CHORD 2x6 SP No.2 *Except*
 C-F: 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-5 max.); C-F.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

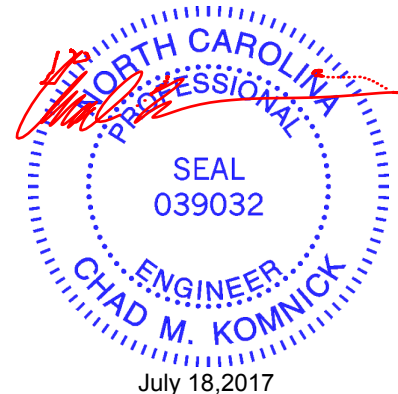
REACTIONS. (lb/size) B=491/0-5-8, H=639/0-5-8
 Max Horz B=104(LC 6)
 Max Uplift B=244(LC 6), H=428(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-571/325, C-N=-875/589, N-O=-875/589, O-P=-875/589, D-P=-875/589, D-Q=-875/589,
 Q-R=-875/589, E-R=-875/589
 BOT CHORD B-J=-260/426, J-T=-256/433, T-U=-256/433, U-V=-256/433, I-V=-256/433
 WEBS E-H=-504/416, C-I=-346/465, D-I=-327/328, E-I=-604/899

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 244 lb uplift at joint B and 428 lb uplift at joint H.
 - 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-C=-60, C-F=-60, G-K=-20
 Concentrated Loads (lb)
 Vert: T=1(F) U=1(F) V=1(F) W=1(F) X=1(F) Y=1(F)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIT/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

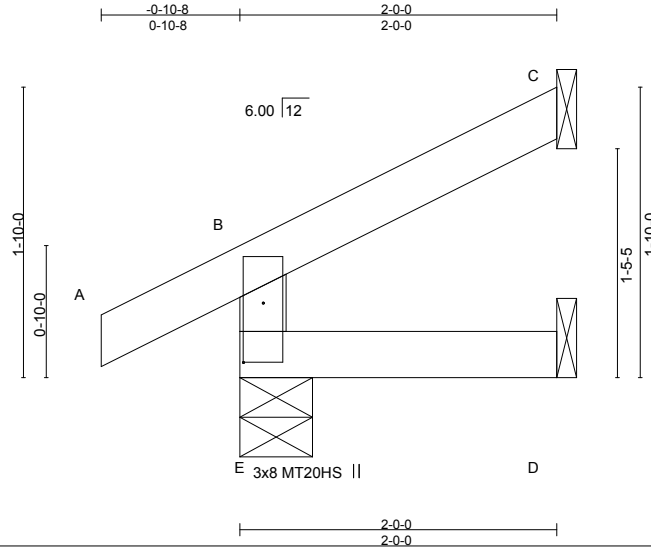


818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss J37	Truss Type Jack-Open	Qty 6	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485204
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:19 2017 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-CxuL8PDp4kOXfe96NMbDVbJBE9KtglVZDEpmX5ywruc



Scale = 1:14.5

Plate Offsets (X,Y)-- [E:0-4-8,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.23	Vert(LL)	-0.00	E	>999	360	MT20HS	187/143
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(TL)	-0.00	D-E	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	C	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.00	D-E	>999	240		
									Weight: 9 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) E=152/0-5-8, C=41/Mechanical, D=16/Mechanical
 Max Horz E=130(LC 8)
 Max Uplift E=97(LC 8), C=51(LC 8), D=4(LC 8)
 Max Grav E=152(LC 1), C=41(LC 1), D=34(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint E, 51 lb uplift at joint C and 4 lb uplift at joint D.
 - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

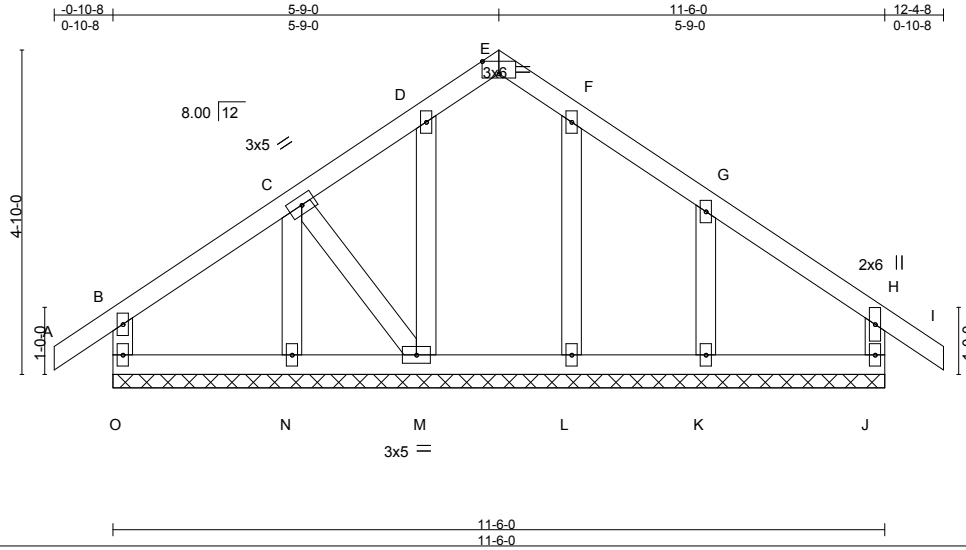
818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss K01	Truss Type GABLE	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	I30485205
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:19 2017 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-CxuL8PDp4kOXfE96NMbDVbJAV9JOGHsZDEpmX5ywruc



Scale = 1:34.3

Plate Offsets (X,Y)-- [E:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	Vert(LL)	-0.00	l	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.14	Vert(TL)	-0.00	l	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Horz(TL)	0.00	J	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix)						
	Code IRC2009/TPI2007						Weight: 64 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 11-6-0.
 (lb) - Max Horz O=-325(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) except O=-248(LC 8), J=-120(LC 9), M=-328(LC 7), N=-151(LC 6), K=-355(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) O, J, N, L, K except M=301(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-O=-153/282
 BOT CHORD N-O=-244/288, M-N=-244/288
 WEBS G-K=-137/354, C-M=-210/322

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 248 lb uplift at joint O, 120 lb uplift at joint J, 328 lb uplift at joint M, 151 lb uplift at joint N and 355 lb uplift at joint K.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



July 18, 2017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

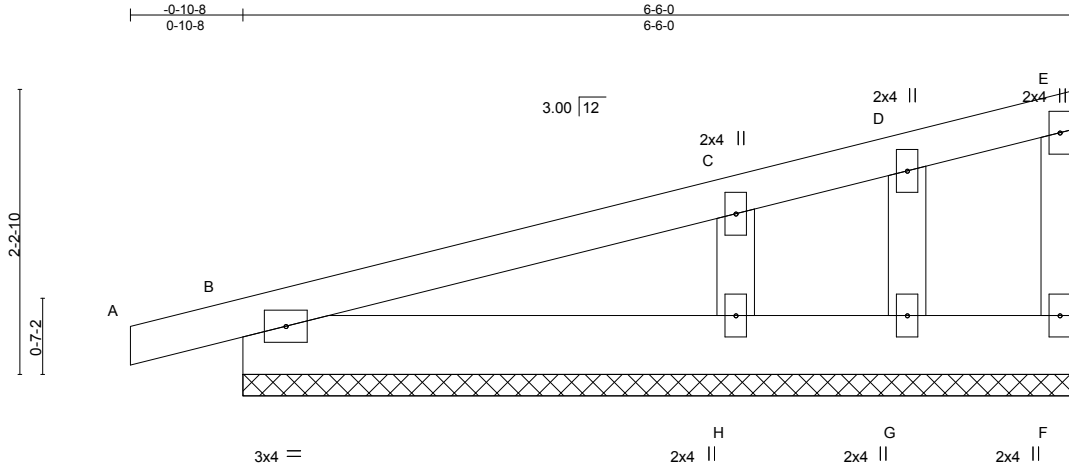


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485206
807184_MASTER	M01	MONOPITCH SUPPORTED	1	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:20 2017 Page 1
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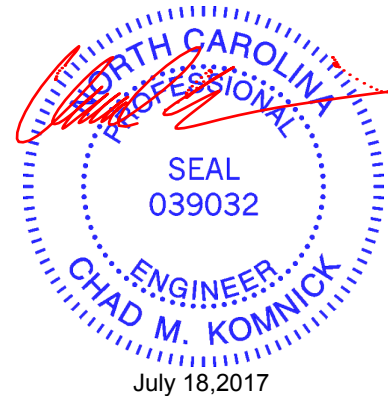
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	0.00	A	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(TL)	0.01	A	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(TL)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						Weight: 32 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 6-6-0.
 (lb) - Max Horz B=157(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) F, G except B=173(LC 6), H=264(LC 6)
 Max Grav All reactions 250 lb or less at joint(s) F, B, G except H=314(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS C-H=-231/491

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) F, G except (jt=lb) B=173, H=264.
 - 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485207
807184_MASTER	M02	Monopitch	5	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:20 2017 Page 1

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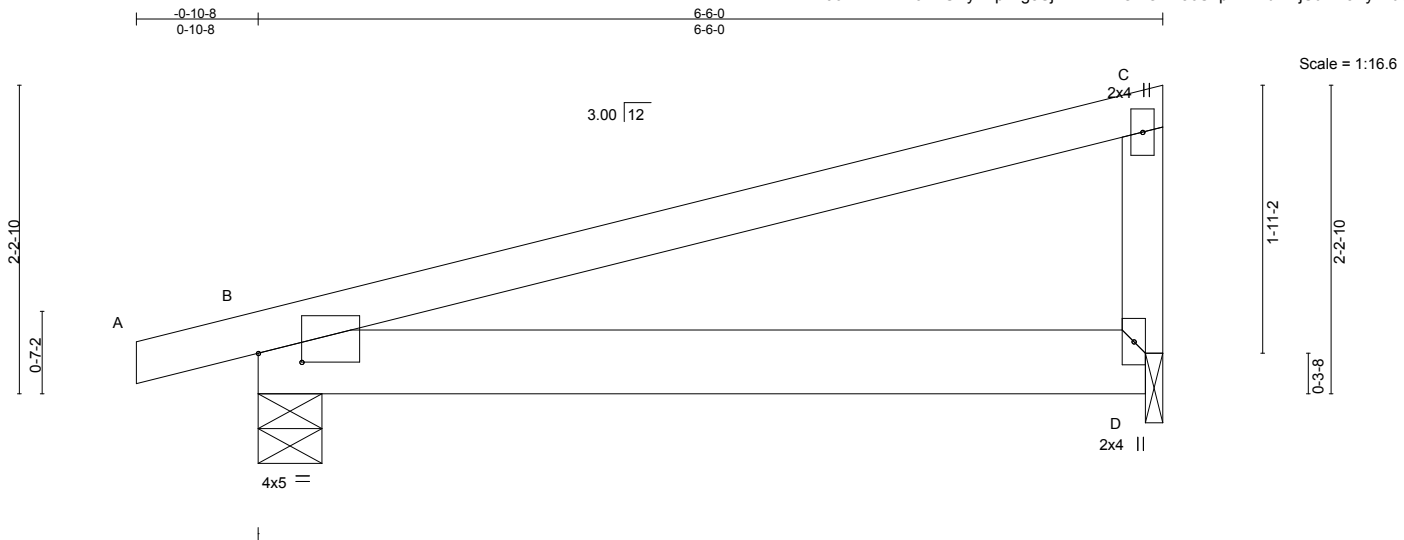


Plate Offsets (X,Y)-- [B:0-3-12,0-0-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL)	-0.03	D-G	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(TL)	-0.08	D-G	>983	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.01	B	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.07	D-G	>999	240	Weight: 29 lb	FT = 20%

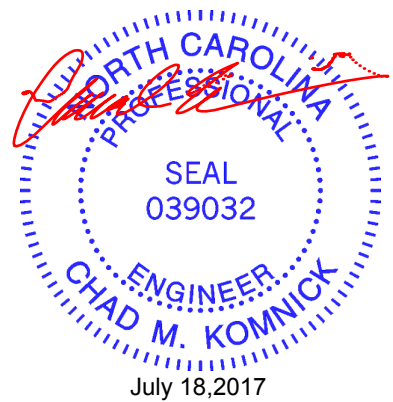
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) B=308/0-5-8, D=252/0-1-8
 Max Horz B=118(LC 7)
 Max Uplift B=-188(LC 8), D=-116(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD C-D=-150/306

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Bearing at joint(s) D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=188, D=116.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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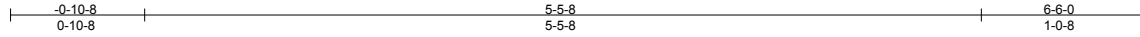


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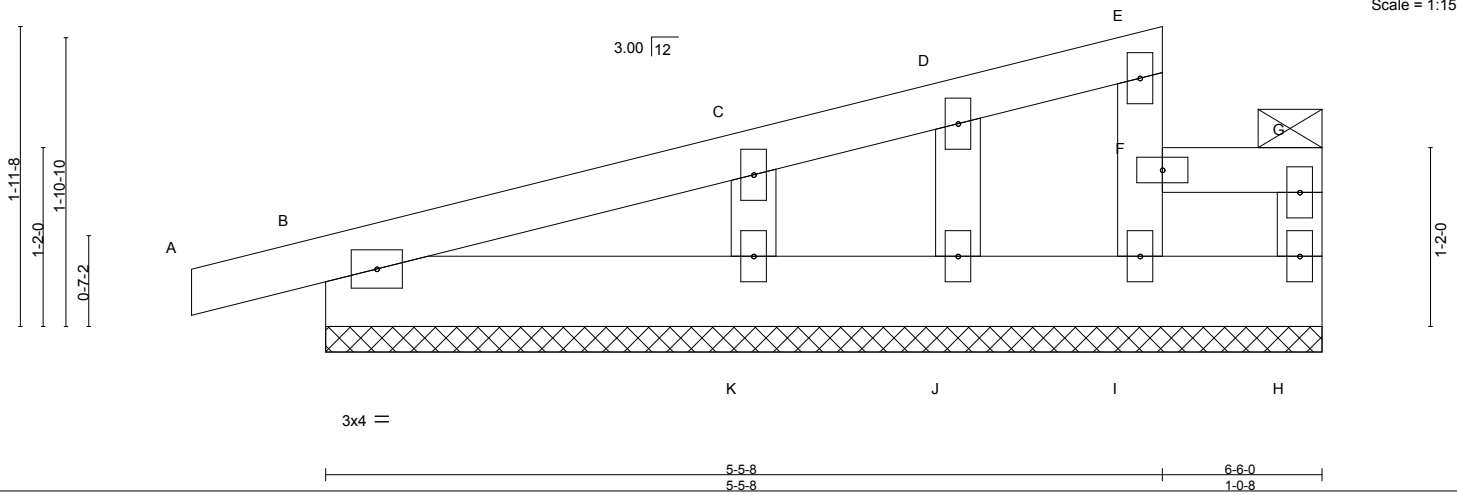
Job 807184_MASTER	Truss M03	Truss Type HALF HIP SUPPORTED	Qty 1	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485208
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:21 2017 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-8K05Y5E3cMeFvXJVUndha0OY1z1V8BbsgXltc_ywrua



Scale = 1:15.0



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	Vert(LL) 0.00	A	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(TL) 0.00	A	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Horz(TL) -0.00	H	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	(Matrix)					Weight: 31 lb	FT = 20%
	Code IRC2009/TPI2007							

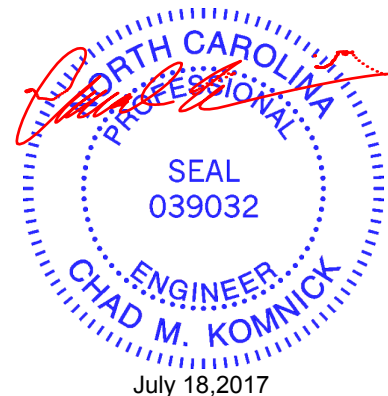
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): F-I, F-G.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: H-I.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 6-6-0.
(lb) - Max Horz B=209(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) I, H, J except B=-162(LC 6), K=-177(LC 8)
Max Grav All reactions 250 lb or less at joint(s) I, H, B, J, K

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-K=-142/303

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) -0-10-8 to 6-4-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) I, H, J except (J=lb) B=162, K=177.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-E=-60, F-G=-75, B-H=-20



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Job 807184_MASTER	Truss M04	Truss Type Half Hip	Qty 11	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485209
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:21 2017 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUBvNvpB-8K05Y5E3cMeFvXJVUndha0OWIzzo8B2sgXltc_ywrua

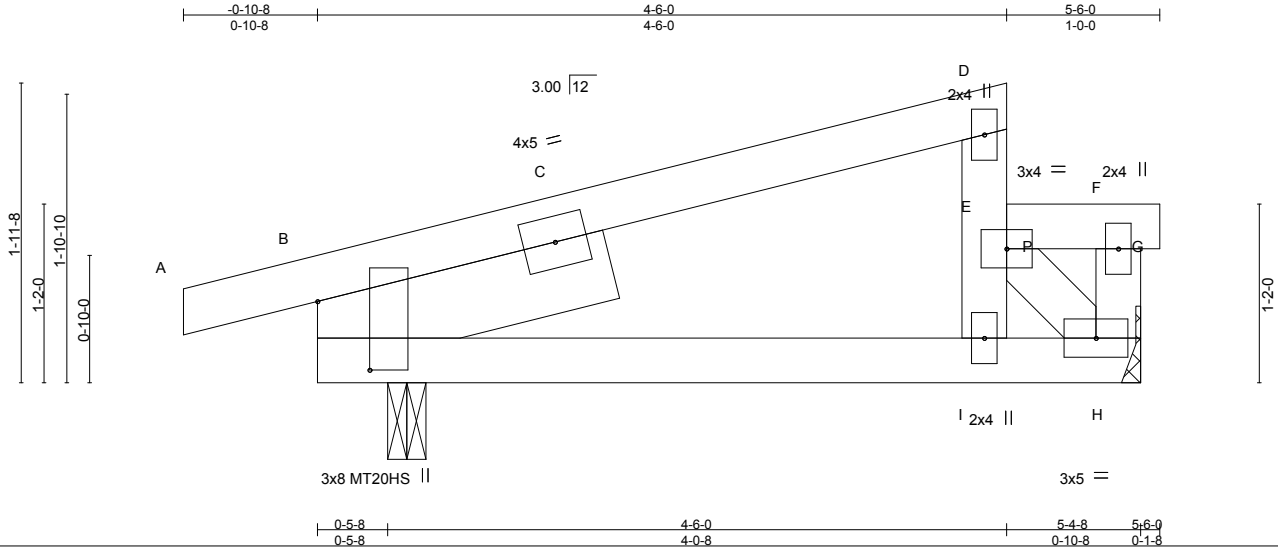


Plate Offsets (X,Y)-- [B:0-5-6,0-4-1]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	-0.00	I-N	>999	360	MT20 244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(TL)	-0.02	I-N	>999	240	MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.13	Horz(TL)	-0.01	B	n/a	n/a	
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.02	I-N	>999	240	Weight: 27 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals, and 2-0-0 oc purlins: E-I, E-G.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except* D-I: 2x4 SP No.2		
SLIDER	Left 2x6 SP No.2 1-11-12		

REACTIONS. (lb/size) H=555/Mechanical, B=331/0-3-0
Max Horz B=114(LC 7)
Max Uplift B=-161(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD H-I=-323/320
WEBS E-H=-452/422

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-10-8 to 5-6-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=161.
 - 10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- LOAD CASE(S)** Standard Except:
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-D=-60, E-F=-60, F-G=-20, H-J=-20
Concentrated Loads (lb)
Vert: P=-410
 - 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-D=-50, E-F=-80, F-G=-50, H-J=-20



Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485209
807184_MASTER	M04	Half Hip	11	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:21 2017 Page 2
ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-8K05Y5E3cMeFvXJVUndha0OWIzzo8B2sgXlItc_ywrua

LOAD CASE(S) Standard Except:

- Concentrated Loads (lb)
Vert: P=-390
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: A-D=-20, E-F=-20, F-G=-20, H-J=-40
Concentrated Loads (lb)
Vert: P=-370
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=141, B-D=118, E-F=124, F-G=112, H-J=-12
Horz: A-B=-153, B-D=-130, D-E=44, F-H=89
Concentrated Loads (lb)
Vert: P=-26
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=105, B-D=118, E-F=124, F-G=-12, H-J=-12
Horz: A-B=-117, B-D=-130, D-E=-101, F-H=-57
Concentrated Loads (lb)
Vert: P=-26
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=83, B-D=48, E-F=26, F-G=14, H-J=-12
Horz: A-B=-95, B-D=-60, D-E=14, F-H=38
Concentrated Loads (lb)
Vert: P=-177
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=18, B-D=31, E-F=48, F-G=36, H-J=-12
Horz: A-B=-30, B-D=-43, D-E=-51, F-H=-26
Concentrated Loads (lb)
Vert: P=-177
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=83, B-D=48, E-F=26, F-G=14, H-J=-12
Horz: A-B=-95, B-D=-60, D-E=-73, F-H=44
Concentrated Loads (lb)
Vert: P=-177
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=14, B-D=26, E-F=48, F-G=36, H-J=-12
Horz: A-B=-26, B-D=-38, D-E=-51, F-H=44
Concentrated Loads (lb)
Vert: P=-177
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=83, B-D=48, E-F=26, F-G=14, H-J=-12
Horz: A-B=-95, B-D=-60, D-E=-73, F-H=44
Concentrated Loads (lb)
Vert: P=-177
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=14, B-D=26, E-F=48, F-G=36, H-J=-12
Horz: A-B=-26, B-D=-38, D-E=-51, F-H=44
Concentrated Loads (lb)
Vert: P=-177
- 12) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: A-D=-20, E-F=-60, F-G=-60, H-J=-20
Concentrated Loads (lb)
Vert: P=-330
- 13) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-D=-60, E-F=-20, F-G=-20, H-J=-20
Concentrated Loads (lb)
Vert: P=410
- 14) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-D=-20, E-F=-60, F-G=-20, H-J=-20
Concentrated Loads (lb)
Vert: P=410
- 15) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-D=-50, E-F=-50, F-G=-50, H-J=-20

Continued on page 3

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485209
807184_MASTER	M04	Half Hip	11	1		

Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITek Industries, Inc. Tue Jul 18 10:59:21 2017 Page 3
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: P=-390

16) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-D=-20, E-F=-80, F-G=-50, H-J=-20

Concentrated Loads (lb)

Vert: P=-390

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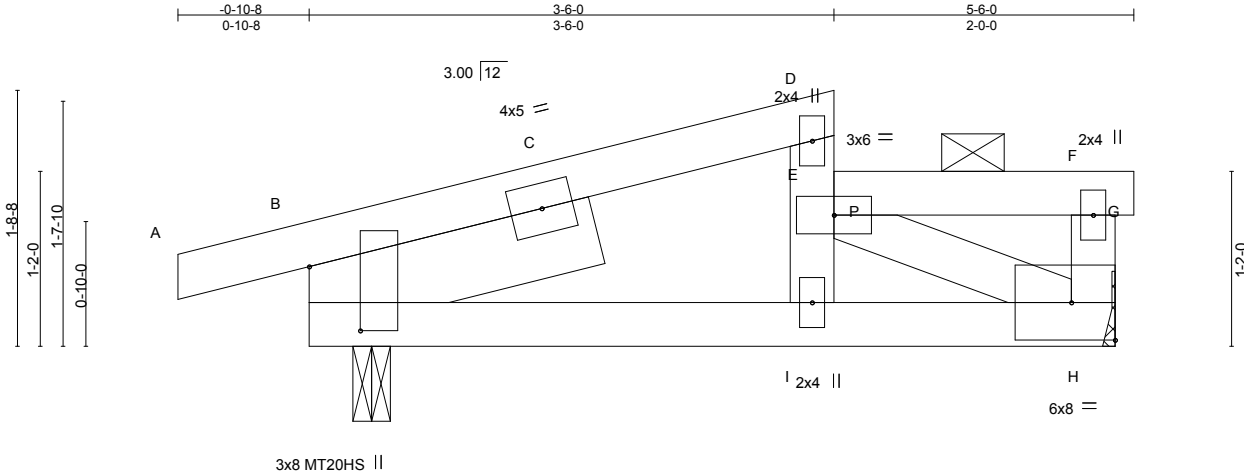
818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss M05	Truss Type Half Hip	Qty 8	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485210
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Builders FirstSource,

Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:22 2017 Page 1
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Scale = 1:15.4

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.01	I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(TL)	-0.03	I	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.31	Horz(TL)	-0.01	H	n/a	n/a		
BCDL	10.0	Code	IRC2009/TP12007	(Matrix-M)		Wind(LL)	0.03	I	>999	240		
											Weight: 27 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 D-I: 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 1-11-12

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals, and 2-0-0 oc purlins: E-I, E-G.
 BOT CHORD Rigid ceiling directly applied or 5-11-15 oc bracing.

REACTIONS. (lb/size) H=473/Mechanical, B=413/0-3-0
 Max Horz B=108(LC 8)
 Max Uplift H=-120(LC 8), B=-280(LC 6)
 Max Grav H=506(LC 12), B=413(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD C-D=-401/578
 BOT CHORD B-I=-610/370, H-I=-944/582
 WEBS E-H=-642/1041

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-10-8 to 5-6-0 zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=120, B=280.
 - 10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 410 lb down and 210 lb up at 3-9-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-D=-60, E-F=-60, F-G=-20, H-J=-20

Continued on page 2



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with Mitek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A Mitek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	
807184_MASTER	M05	Half Hip	8	1		I30485210

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:22 2017 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-cWZTmQFhNfm5Wuhuh2U8w7Exd6MHztbQ0vB1Q8QywrUz

LOAD CASE(S) Standard

- Concentrated Loads (lb)
Vert: P=-410
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-D=-50, E-F=-80(F=-30), F-G=-50(F=-30), H-J=-20
Concentrated Loads (lb)
Vert: P=-390
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: A-D=-20, E-F=-20, F-G=-20, H-J=-40
Concentrated Loads (lb)
Vert: P=-370
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=141, B-D=118, E-F=124, F-G=112, H-J=106
Horz: A-B=-153, B-D=-130, D-E=44
Concentrated Loads (lb)
Vert: P=210
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=105, B-D=118, E-F=124, F-G=-12, H-J=106
Horz: A-B=-117, B-D=-130, D-E=-101
Concentrated Loads (lb)
Vert: P=210
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=83, B-D=48, E-F=26, F-G=14, H-J=35
Horz: A-B=-95, B-D=-60, D-E=14
Concentrated Loads (lb)
Vert: P=82
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=18, B-D=31, E-F=48, F-G=36, H-J=-12
Horz: A-B=-30, B-D=-43, D-E=-51
Concentrated Loads (lb)
Vert: P=-177
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=83, B-D=48, E-F=26, F-G=14, H-J=35
Horz: A-B=-95, B-D=-60, D-E=-73
Concentrated Loads (lb)
Vert: P=82
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=14, B-D=26, E-F=48, F-G=36, H-J=-12
Horz: A-B=-26, B-D=-38, D-E=-51
Concentrated Loads (lb)
Vert: P=-177
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=83, B-D=48, E-F=26, F-G=14, H-J=35
Horz: A-B=-95, B-D=-60, D-E=-73
Concentrated Loads (lb)
Vert: P=82
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=14, B-D=26, E-F=48, F-G=36, H-J=-12
Horz: A-B=-26, B-D=-38, D-E=-51
Concentrated Loads (lb)
Vert: P=-177
- 12) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: A-B=-20, B-D=-60, E-F=-100(F=-40), F-G=-100(F=-40), H-J=-20
Concentrated Loads (lb)
Vert: P=-330
- 13) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-D=-60, E-F=-20, F-G=-20, H-J=-20
Concentrated Loads (lb)
Vert: P=-410
- 14) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-D=-20, E-F=-60, F-G=-20, H-J=-20

Continued on page 3

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/
807184_MASTER	M05	Half Hip	8	1	I30485210

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITek Industries, Inc. Tue Jul 18 10:59:22 2017 Page 3
 ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-cWZTmQFhNfm5Whuh2U8w7Exd6MHztbQ0vB1Q8QywruZ

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: P=-410

15) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-D=-50, E-F=-50(F=-30), F-G=-50(F=-30), H-J=-20

Concentrated Loads (lb)

Vert: P=-390

16) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-D=-20, E-F=-80(F=-30), F-G=-50(F=-30), H-J=-20

Concentrated Loads (lb)

Vert: P=-390

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

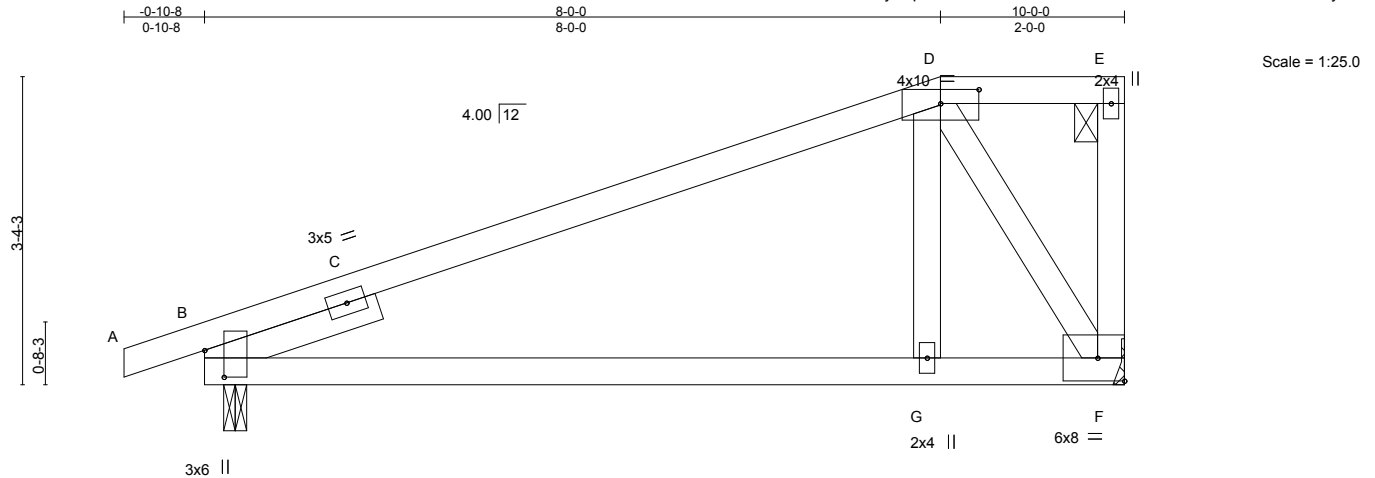


818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss M06	Truss Type HALF HIP	Qty 3	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	I30485211
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:22 2017 Page 1
ID:PFhEEkzM06?Kz1KM4J4YUBYNvpB-cWZTmQFhNfm5Whuh2U8w7ExXdM8Uyf0vB1Q8Qywrwz



Scale = 1:25.0

Plate Offsets (X,Y)-- [B:0-3-8,0-2-9], [D:0-5-0,0-1-13]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.92	Vert(LL)	-0.06	G-L	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.94	Vert(TL)	-0.17	G-L	>693	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49	Horz(TL)	-0.05	B	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.33	G-L	>360	240	Weight: 48 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: D-E.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) F=376/Mechanical, B=465/0-3-0
 Max Horz B=190(LC 6)
 Max Uplift F=-422(LC 6), B=-476(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-235/492, C-D=-313/751
 BOT CHORD B-G=-851/297, F-G=-810/287
 WEBS D-G=-861/300, D-F=-576/1633

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) F=422, B=476.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

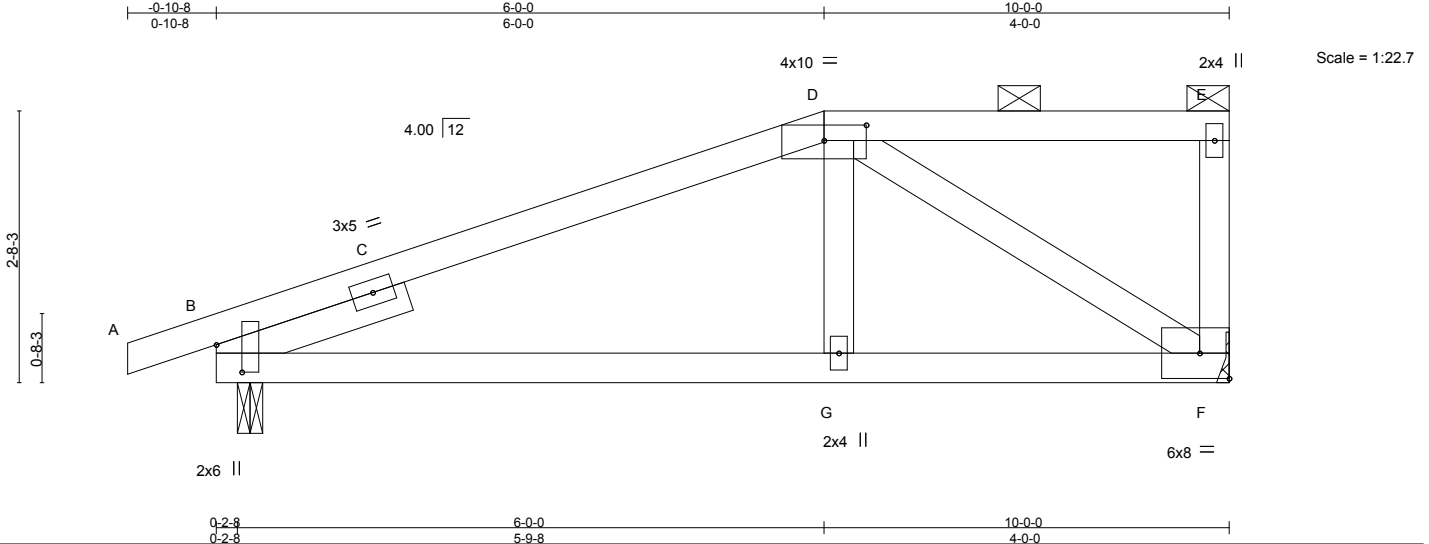
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485212
807184_MASTER	M07	HALF HIP	3	1		

Builders FirstSource, Sumter, SC 29153 7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:23 2017 Page 1
 ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-4j7szmGJ8zuy8rTtcCf9gRTommcoc0M98m_ gsywruY



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	-0.02	G-L >999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(TL)	-0.06	G-L >999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.39	Horz(TL)	-0.02	B n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.11	G-L >999	240	Weight: 47 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): D-E.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) F=376/Mechanical, B=465/0-3-0
 Max Horz B=149(LC 6)
 Max Uplift F=-411(LC 6), B=-488(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-178/465, C-D=-432/1098
 BOT CHORD B-G=-1130/410, F-G=-1164/417
 WEBS D-G=-555/206, D-F=-466/1321

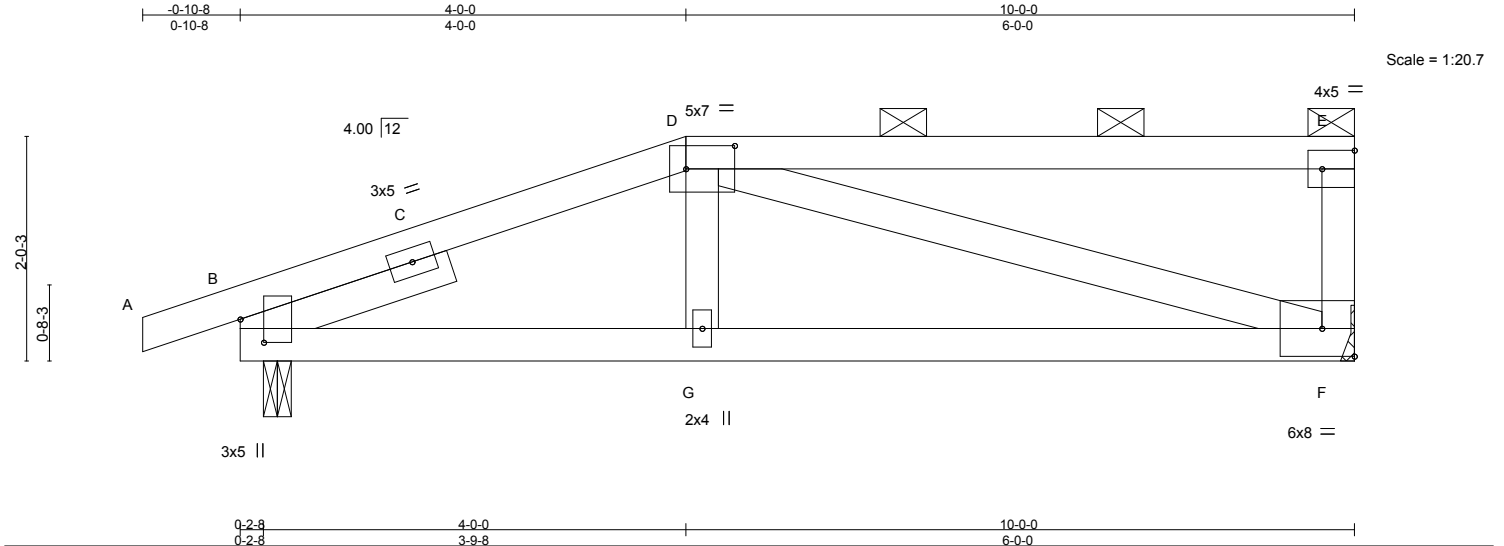
- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) F=411, B=488.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485213
807184_MASTER	M08	HALF HIP	3	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:23 2017 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-4j7szmGJ8zuy8rTtcCf9gRTI_maCc1f98m_gsywruY



Scale = 1:20.7

Plate Offsets (X,Y)-- [B:0-2-8,0-2-9], [D:0-5-4,0-2-8], [E:Edge,0-2-0]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.75	Vert(LL) -0.03 F-G >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.53	Vert(TL) -0.09 F-G >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.37	Horz(TL) -0.02 F n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix-S)	Wind(LL) 0.15 F-G >804 240	Weight: 47 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-11-12

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); D-E.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) F=376/Mechanical, B=465/0-3-0
 Max Horz B=109(LC 8)
 Max Uplift F=-402(LC 6), B=-496(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-86/308, C-D=-582/1485, D-E=-112/272, E-F=-185/318
 BOT CHORD B-G=-1440/531, F-G=-1479/537
 WEBS D-G=-464/188, D-F=-443/1258

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) F=402, B=496.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss M09	Truss Type HALF HIP GIRDER	Qty 3	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	130485214
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:24 2017 Page 1
ID:PFhEEKzMO6?Kz1KM4J4YUBvNvpB-YvhEB6GxvH0pm?23AvAOCf01dA?mLW2IMVWXClwruX



Scale = 1:20.7

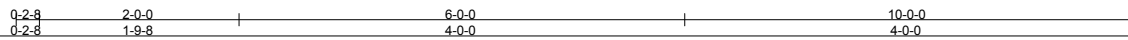
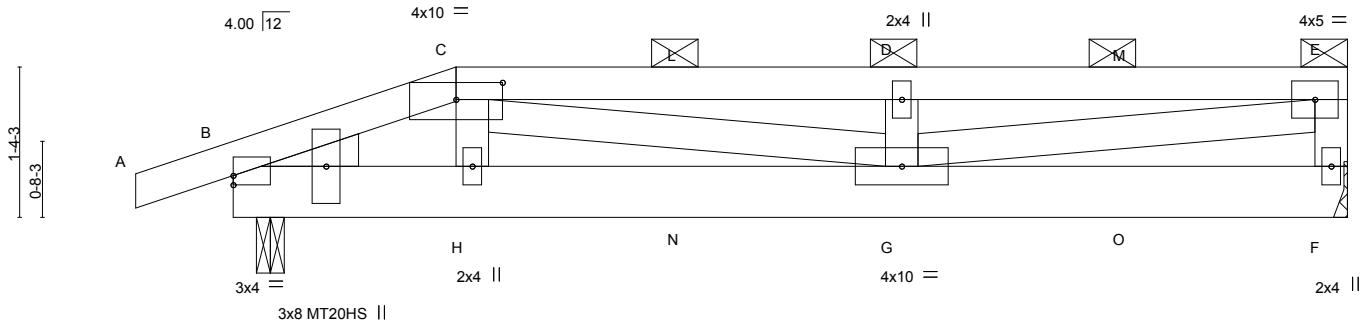


Plate Offsets (X,Y)-- [B:0-0-0-1-0], [C:0-5-0-0-1-13]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	Vert(LL) -0.03	G	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(TL) -0.06	G-H	>999	240	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.24	Horz(TL) -0.01	F	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	(Matrix-M)	Wind(LL) 0.07	G-H	>999	240		
	Code IRC2009/TPI2007						Weight: 55 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-13 max.); C-E.
BOT CHORD Rigid ceiling directly applied or 8-2-5 oc bracing.

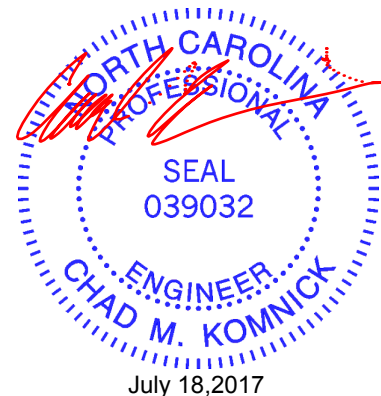
REACTIONS. (lb/size) F=401/Mechanical, B=457/0-3-0
Max Horz B=69(LC 4)
Max Uplift F=-430(LC 4), B=-504(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-741/801, C-L=-923/997, D-L=-923/997, D-M=-923/997, E-M=-923/997, E-F=-318/321
BOT CHORD B-H=-765/695, H-N=-778/701, G-N=-778/701
WEBS E-G=-915/843

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); cantilever left exposed; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) F=430, B=504.
 - 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 11 lb down and 28 lb up at 2-0-0, 7 lb down and 28 lb up at 4-0-12, and 7 lb down and 28 lb up at 6-0-12, and 7 lb down and 28 lb up at 8-0-12 on top chord, and 3 lb down and 83 lb up at 2-0-0, 4 lb down and 40 lb up at 4-0-12, and 4 lb down and 40 lb up at 6-0-12, and 4 lb down and 40 lb up at 8-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-60, C-E=-60, F-I=-20
Concentrated Loads (lb)
Vert: C=-0(B) H=-3(B) G=-4(B) D=-0(B) L=-0(B) M=-0(B) N=-4(B) O=-4(B)



July 18, 2017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

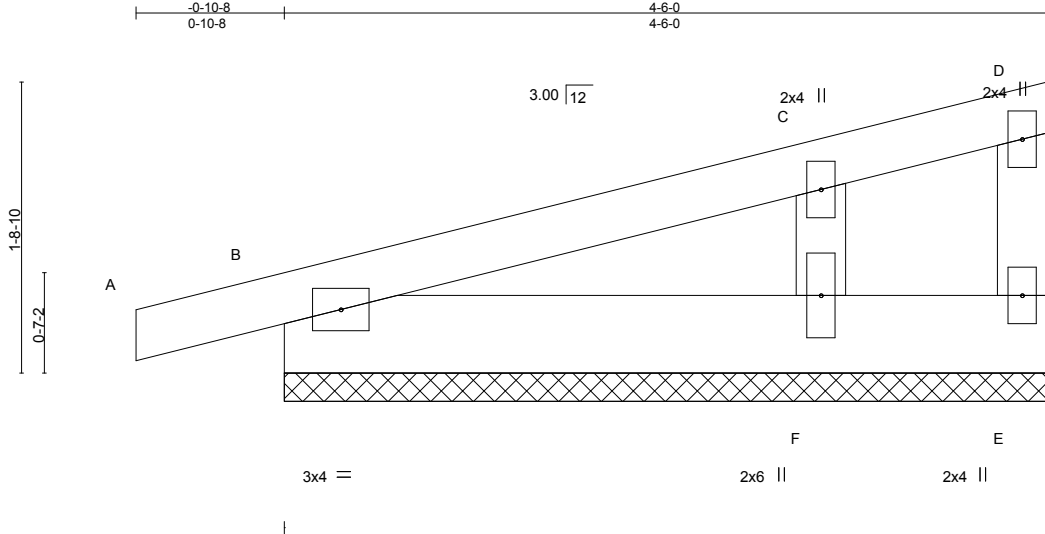


818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss M10	Truss Type MONOPITCH SUPPORTED	Qty 3	Ply 1	H&H-NC/Dogwood/ I30485215
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:24 2017 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUBYNvpB-YvhEB6GxvH0pm?23AvAOCf03zA28LYuIMVWXClYwruX



Scale = 1:13.6

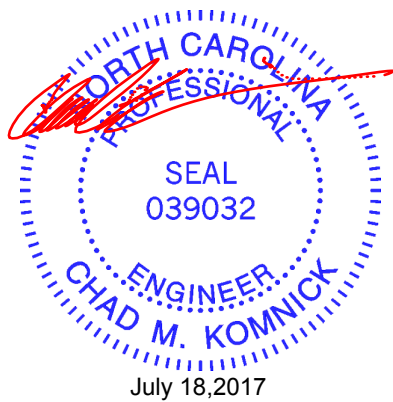
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) 0.00 A n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(TL) 0.00 A n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(TL) 0.00 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix)		Weight: 21 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) E=-9/4-6-0, B=165/4-6-0, F=245/4-6-0
Max Horz B=114(LC 6)
Max Uplift E=-10(LC 3), B=-170(LC 6), F=-203(LC 6)
Max Grav E=5(LC 9), B=165(LC 1), F=245(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-F=-179/400

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E except (jt=lb) B=170, F=203.
 - 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) B.
 - 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485216
807184_MASTER	M11	MONOPITCH	10	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:24 2017 Page 1
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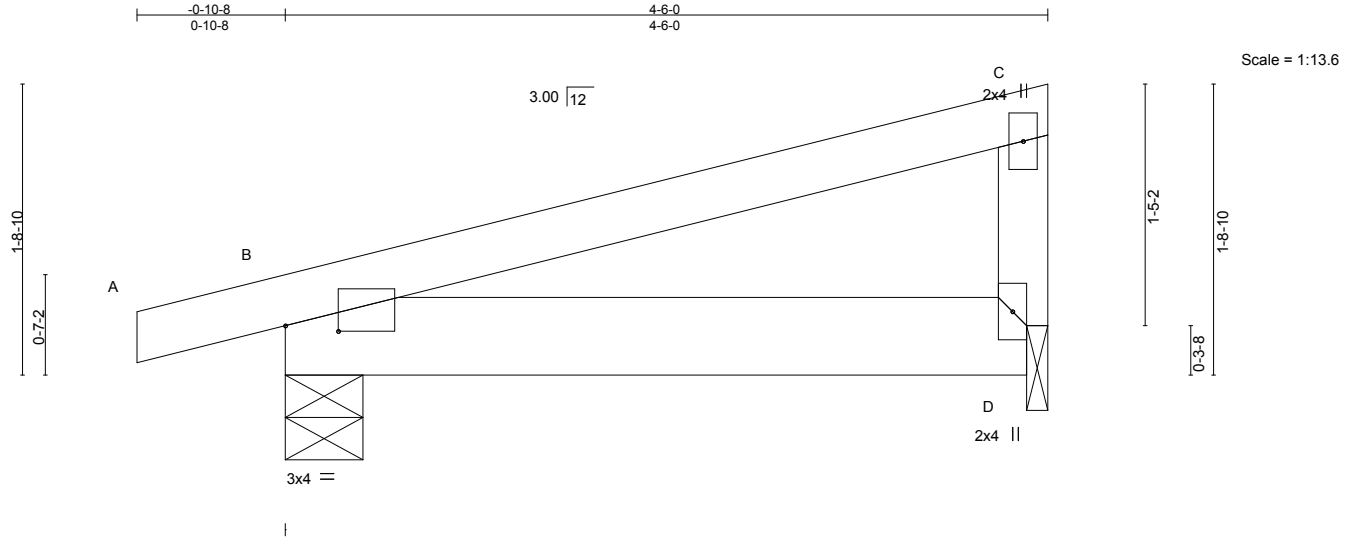


Plate Offsets (X,Y)-- [B:0-3-12,0-0-6]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	-0.01	D-G	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(TL)	-0.02	D-G	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	B	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.02	D-G	>999		
								Weight: 20 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(lb/size) B=229/0-5-8, D=170/0-1-8
 Max Horz B=87(LC 6)
 Max Uplift B=-146(LC 6), D=-86(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) B=146.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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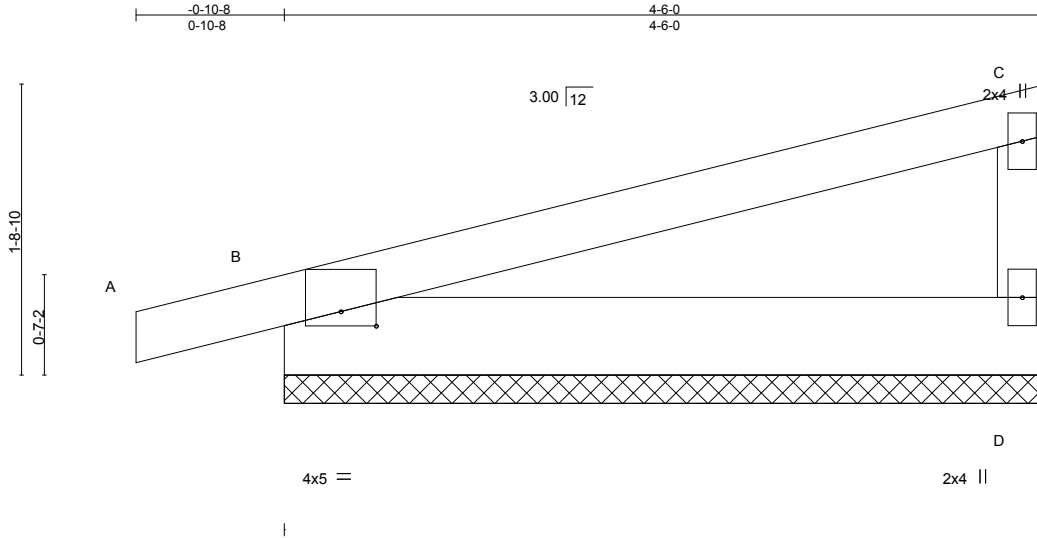


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	
807184_MASTER	M12	Monopitch	1	1		I30485217

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:25 2017 Page 1
 ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-15FcOSHaga8gN9dGjdidlsZ8zaNQ40?Sb9G5llywruW



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL	20.0	2-0-0	Plate Grip DOL	1.15	TC	0.53	in (loc)	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	l/defl	L/d		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	n/r	120		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)		n/a	120		
						n/a	n/a	Weight: 20 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-6-0 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (lb/size) D=169/4-6-0, B=232/4-6-0
 Max Horz B=90(LC 7)
 Max Uplift D=-76(LC 6), B=-156(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD C-D=-125/286

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) B=156.
 - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	
807184_MASTER	M13	Half Hip	2	1		I30485218

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:25 2017 Page 2
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-15FcOSHaga8gN9dGjdidlsZ6AaHi4wrSb9G5llywruW

LOAD CASE(S) Standard

- Concentrated Loads (lb)
Vert: N=-410
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-50, D-E=-80, E-F=-50, G-I=-20
Concentrated Loads (lb)
Vert: N=-390
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: A-C=-20, D-E=-20, E-F=-20, G-I=-40
Concentrated Loads (lb)
Vert: N=-370
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=141, B-C=114, D-E=120, E-F=107, G-I=105
Horz: A-B=-153, B-C=-126, C-D=43
Concentrated Loads (lb)
Vert: N=200
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=102, B-C=114, D-E=120, E-F=-12, G-I=105
Horz: A-B=-114, B-C=-126, C-D=-100
Concentrated Loads (lb)
Vert: N=200
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=83, B-C=48, D-E=26, E-F=14, G-I=35
Horz: A-B=-95, B-C=-60, C-D=14
Concentrated Loads (lb)
Vert: N=82
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=18, B-C=31, D-E=48, E-F=36, G-I=-12
Horz: A-B=-30, B-C=-43, C-D=-51
Concentrated Loads (lb)
Vert: N=-177
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=83, B-C=48, D-E=26, E-F=14, G-I=35
Horz: A-B=-95, B-C=-60, C-D=-73
Concentrated Loads (lb)
Vert: N=82
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=14, B-C=26, D-E=48, E-F=36, G-I=-12
Horz: A-B=-26, B-C=-38, C-D=-51
Concentrated Loads (lb)
Vert: N=-177
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=83, B-C=48, D-E=26, E-F=14, G-I=35
Horz: A-B=-95, B-C=-60, C-D=-73
Concentrated Loads (lb)
Vert: N=82
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=14, B-C=26, D-E=48, E-F=36, G-I=-12
Horz: A-B=-26, B-C=-38, C-D=-51
Concentrated Loads (lb)
Vert: N=-177
- 12) Dead: Lumber Increase=0.90, Plate Increase=0.90 Pit. metal=0.90
Uniform Loads (plf)
Vert: A-C=-20, D-E=-60, E-F=-60, G-I=-20
Concentrated Loads (lb)
Vert: N=330
- 13) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-60, D-E=-20, E-F=-20, G-I=-20
Concentrated Loads (lb)
Vert: N=-410
- 14) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-20, D-E=-60, E-F=-20, G-I=-20

Continued on page 3

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485218
807184_MASTER	M13	Half Hip	2	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITek Industries, Inc. Tue Jul 18 10:59:25 2017 Page 3
 ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-15FcOSHaga8gN9dGjdidlsZ6AaHi4wrSb9G5llywruW

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: N=-410

15) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-C=-50, D-E=-50, E-F=-50, G-I=-20

Concentrated Loads (lb)

Vert: N=-390

16) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-C=-20, D-E=-80, E-F=-50, G-I=-20

Concentrated Loads (lb)

Vert: N=-390

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818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss M14	Truss Type Monopitch	Qty 7	Ply 1	H&H-NC/Dogwood/ Job Reference (optional)	I30485219
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:26 2017 Page 1

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6-6-0
6-6-0

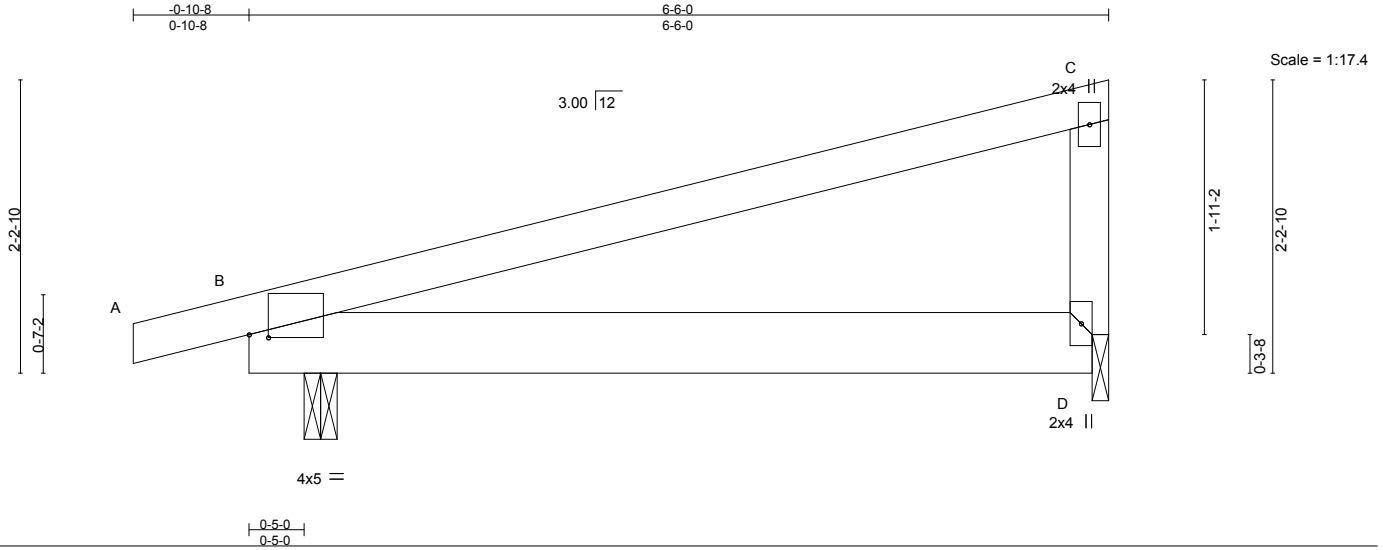


Plate Offsets (X,Y)-- [B:0-1-12,0-0-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.64	Vert(LL)	-0.01	D-H	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(TL)	-0.04	D-H	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.01	B	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.09	D-H	>857	Weight: 29 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) B=340/0-3-0, D=221/0-1-8
Max Horz B=124(LC 6)
Max Uplift B=360(LC 6), D=245(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-146/309

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Bearing at joint(s) D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=360, D=245.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



July 18, 2017

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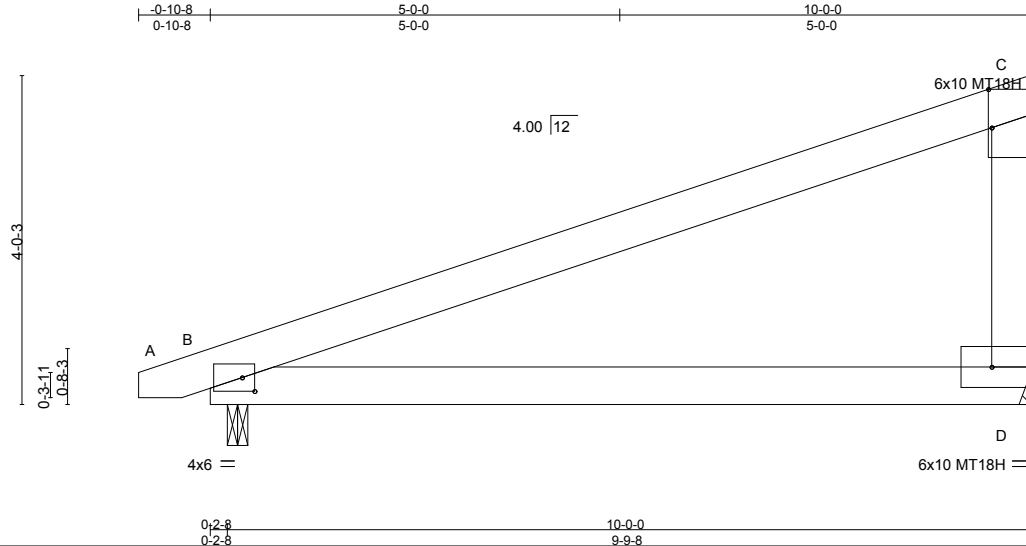
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	130485220
807184_MASTER	M15	MONOPITCH	3	1		

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:26 2017 Page 1

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Scale = 1:28.1

Plate Offsets (X,Y)-- [B:0-1-13,0-2-0]. [C:0-5-10,Edge]. [D:Edge,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	-0.06	D-G	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.75	Vert(TL)	-0.17	D-G	>670	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.02	B	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.33	D-G	>352		
								Weight: 58 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) D=390/Mechanical, B=429/0-3-0
Max Horz B=216(LC 6)
Max Uplift D=-445(LC 6), B=-424(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-230/286, C-D=-249/485
BOT CHORD B-D=-463/164

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; cantilever left exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) D=445, B=424.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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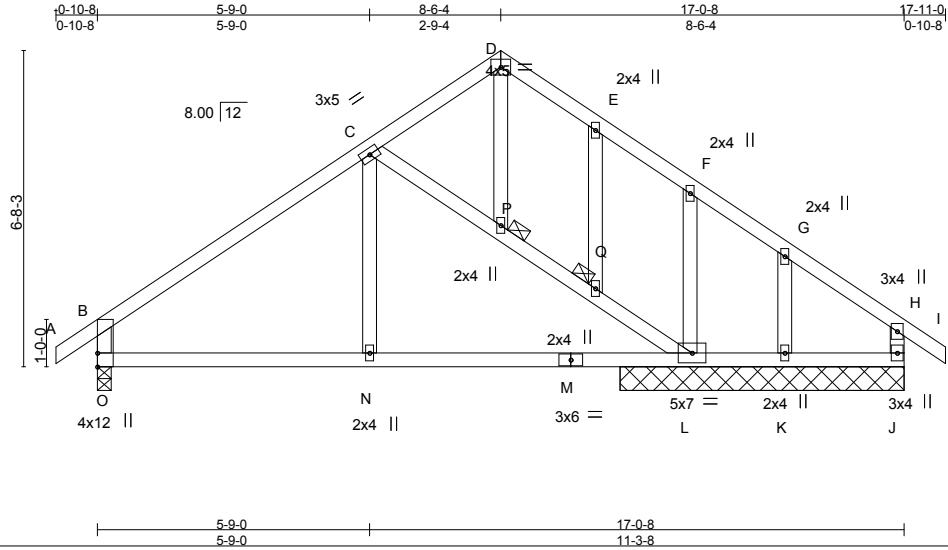
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss N01	Truss Type KINGPOST	Qty 1	Ply 1	H&H-NC/Dogwood/ 130485221
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:26 2017 Page 1
ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-VHp_colCRUGX?JBShKDsH45lq_elpOQbqp?eHBywruV



Scale = 1:48.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.59	Vert(LL) -0.04	L-N	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(TL) -0.12	L-N	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.37	Horz(TL) 0.01	J	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	(Matrix-S)	Wind(LL) 0.02	L-N	>999	240	Weight: 98 lb	FT = 20%
	Code IRC2009/TPI2007							

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 B-O: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.
 JOINTS 1 Brace at Jt(s): P, Q

REACTIONS.

All bearings 6-0-0 except (jt=length) O=0-3-8.
 (lb) - Max Horz O=446(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) J except O=485(LC 8), L=429(LC 8), K=324(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) K except O=658(LC 1), L=667(LC 1), J=390(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD B-C=-689/431, C-D=-301/349, D-E=-248/294, E-F=-325/238, G-H=-313/108, B-O=-585/541, H-J=-321/129
 BOT CHORD N-O=-357/479, M-N=-357/479, L-M=-357/479, K-L=-87/274, J-K=-87/274
 WEBS C-P=-376/480, P-Q=-356/426, L-Q=-369/475, F-L=-273/321, G-K=-80/265

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) J except (jt=lb) O=485, L=429, K=324.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-B=-60, B-D=-60, D-H=-60, H-I=-60, J-O=-20, C-L=-30(F)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIT/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss N02	Truss Type Common Girder	Qty 2	Ply 2	H&H-NC/Dogwood/ Job Reference (optional)	130485222
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:27 2017 Page 1
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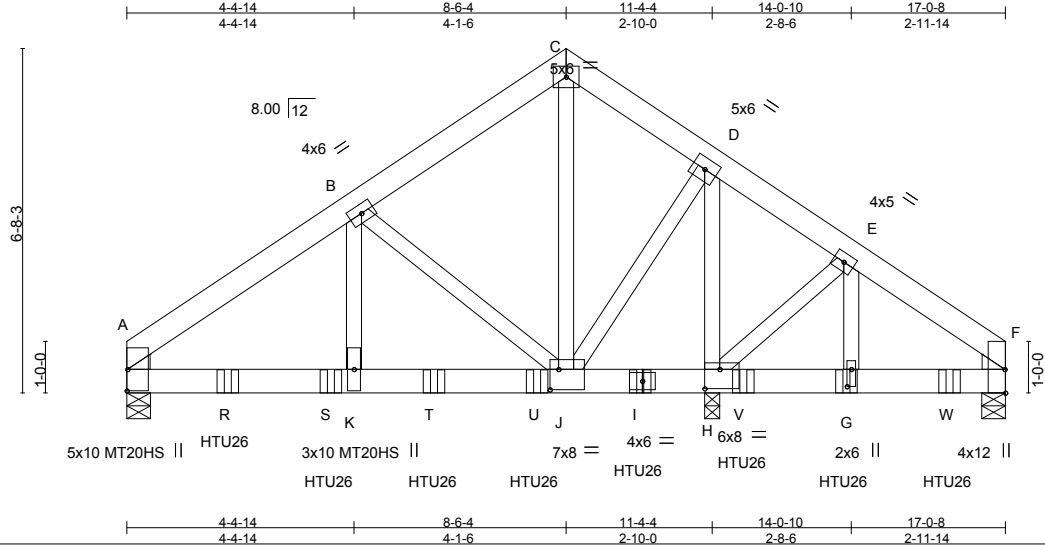


Plate Offsets (X,Y)-- [F:Edge,0-0-3], [G:0-4-0-0-1-0], [H:0-3-8-0-4-8], [J:0-2-0-0-4-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	-0.04	J-K	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.89	Vert(TL)	-0.11	J-K	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.42	Horz(TL)	0.02	H	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.06	J-K	>999		
								Weight: 262 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: H-J.

REACTIONS. (lb/size) H=7951/0-3-8 (req. 0-4-11), A=3886/0-5-8, F=1903/0-5-8
 Max Horz A=297(LC 5)
 Max Uplift H=-2977(LC 7), A=-1423(LC 6), F=-694(LC 7)
 Max Grav H=7951(LC 1), A=3886(LC 1), F=1907(LC 12)

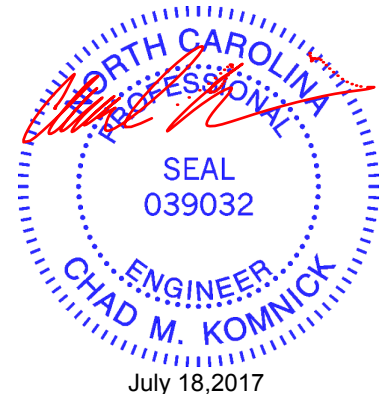
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-4563/1695, B-C=-1791/761, C-D=-1800/787, D-E=-178/534, E-F=-1233/459
 BOT CHORD A-R=-1497/3701, R-S=-1497/3701, K-S=-1497/3701, K-T=-1497/3701, T-U=-1497/3701,
 J-U=-1497/3701, I-J=-442/293, H-I=-442/293, H-V=-344/1054, G-V=-344/1054,
 G-W=-344/1054, F-W=-344/1054
 WEBS B-K=-1139/3254, B-J=-2912/1236, C-J=-694/1697, D-J=-1286/3437, D-H=-4232/1597,
 E-H=-2008/857, E-G=-727/2014

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- WARNING: Required bearing size at joint(s) H greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
 H=2977, A=1423, F=694.
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-11-8 from the left end to 15-11-8 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Continued on page 2



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIT/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	I30485222
807184_MASTER	N02	Common Girder	2	2		

Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITek Industries, Inc. Tue Jul 18 10:59:27 2017 Page 2
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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-C=-60, C-F=-60, L-O=-20

Concentrated Loads (lb)

Vert: I=-1547(B) G=-1547(B) R=-1546(B) S=-1547(B) T=-1547(B) U=-1547(B) V=-1547(B) W=-1547(B)

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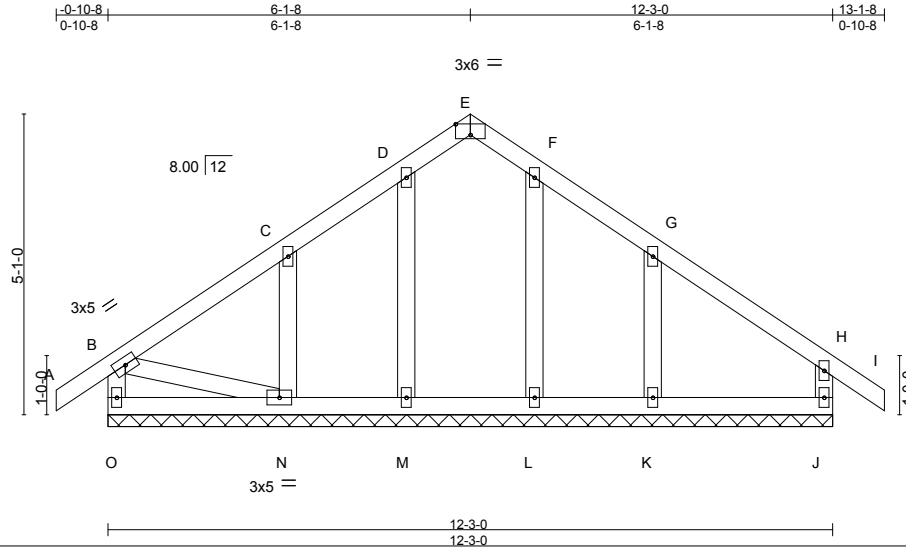


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Dogwood/	
807184_MASTER	R01	GABLE	1	1		I30485223

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:28 2017 Page 1
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Scale = 1:38.9

Plate Offsets (X,Y)-- [E:0-3-0,Edge]

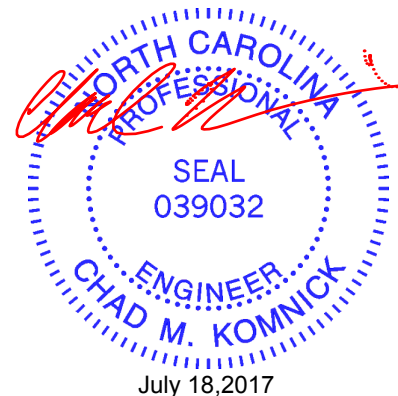
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	-0.00	H	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(TL)	-0.00	H	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(TL)	0.00	J	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						Weight: 68 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 12-3-0.
(lb) - Max Horz O=-342(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) M except O=-159(LC 6), J=-149(LC 9), N=-352(LC 8), K=-384(LC 9)
Max Grav All reactions 250 lb or less at joint(s) O, J, M, N, L, K

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-107/251
BOT CHORD N-O=-317/345
WEBS C-N=-154/333, G-K=-156/383, B-N=-207/298

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) M except (J=lb) O=159, J=149, N=352, K=384.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



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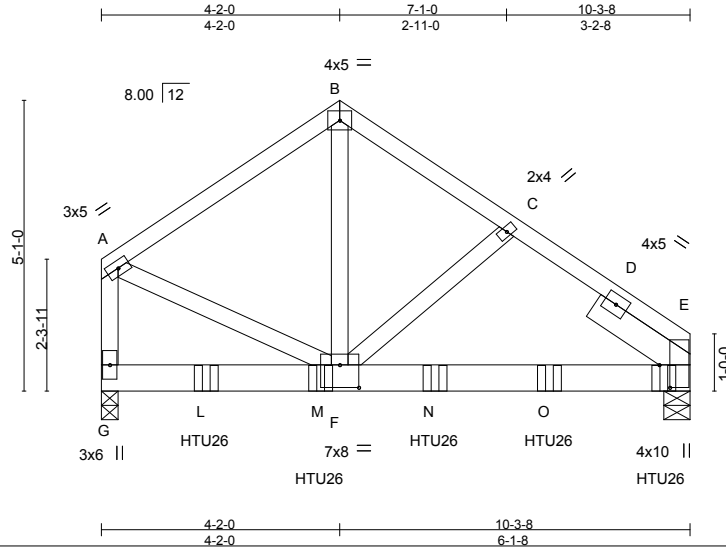


818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss R02	Truss Type Common Girder	Qty 1	Ply 2	H&H-NC/Dogwood/ Job Reference (optional)	130485224
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:28 2017 Page 1
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Scale = 1:40.3

Plate Offsets (X,Y)-- [E:0-4-12,0-2-4] [F:0-4-0,0-4-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	-0.06	F-J	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(TL)	-0.14	F-J	>861		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.35	Horz(TL)	-0.01	E	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-M)	Wind(LL)	0.08	F-J	>999		
								Weight: 136 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
SLIDER Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) E=3891/0-5-8, G=3258/0-3-8
Max Horz G=-272(LC 4)
Max Uplift E=-1384(LC 7), G=-1018(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-2786/979, B-C=-2782/987, C-D=-2920/1027, D-E=-3217/1195, A-G=-2711/927
BOT CHORD F-N=-822/2491, N-O=-822/2491, E-O=-822/2491
WEBS B-F=-960/2864, C-F=-323/276, A-F=-831/2422

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) E=1384, G=1018.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-10-0 from the left end to 9-10-0 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-E=-60, G-H=-20
Concentrated Loads (lb)
Vert: J=-1231(B) L=-1327(B) M=-1327(B) N=-1226(B) O=-1226(B)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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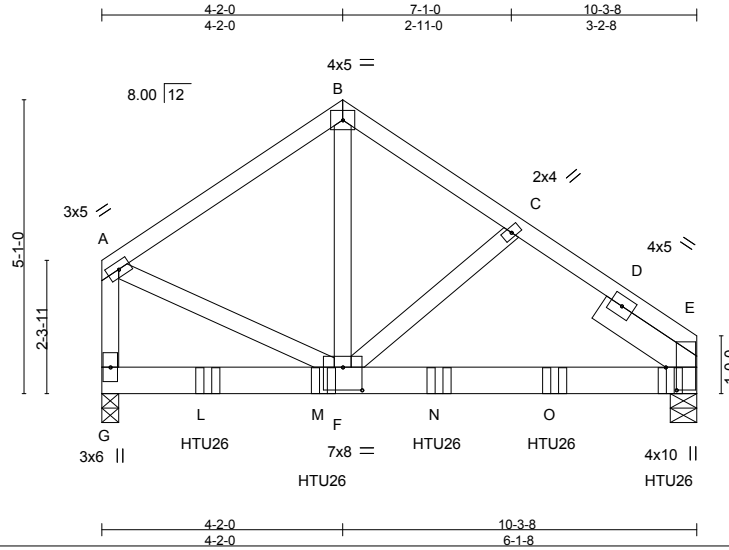
ENGINEERING BY
TRENCO
A Mitek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss R03	Truss Type Common Girder	Qty 1	Ply 2	H&H-NC/Dogwood/ Job Reference (optional)	130485225
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MITEK Industries, Inc. Tue Jul 18 10:59:29 2017 Page 1
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Scale = 1:39.9

Plate Offsets (X,Y)-- [E:0-4-12,0-2-4], [F:0-4-0,0-4-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.35	Vert(LL)	-0.06	F-J	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(TL)	-0.14	F-J	>849		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.34	Horz(TL)	-0.02	E	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-M)	Wind(LL)	0.08	F-J	>999		
								Weight: 136 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
SLIDER Right 2x6 SP No.2 1-11-12	

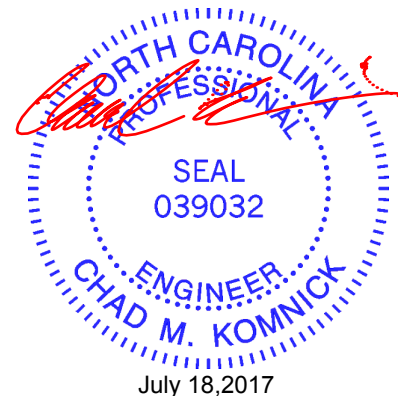
REACTIONS. (lb/size) E=3834/0-5-8, G=3102/0-3-8
Max Horz G=-272(LC 4)
Max Uplift E=-1436(LC 7), G=-1158(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-2689/1066, B-C=-2688/1073, C-D=-2829/1109, D-E=-3212/1199, A-G=-2622/1008
BOT CHORD F-N=-884/2422, N-O=-884/2422, E-O=-884/2422
WEBS B-F=-1054/2761, C-F=-338/262, A-F=-903/2343

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) E=1436, G=1158.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-10-0 from the left end to 9-10-0 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-E=-60, G-H=-20
Concentrated Loads (lb)
Vert: J=-1231(B) L=-1221(B) M=-1221(B) N=-1226(B) O=-1226(B)



July 18, 2017

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

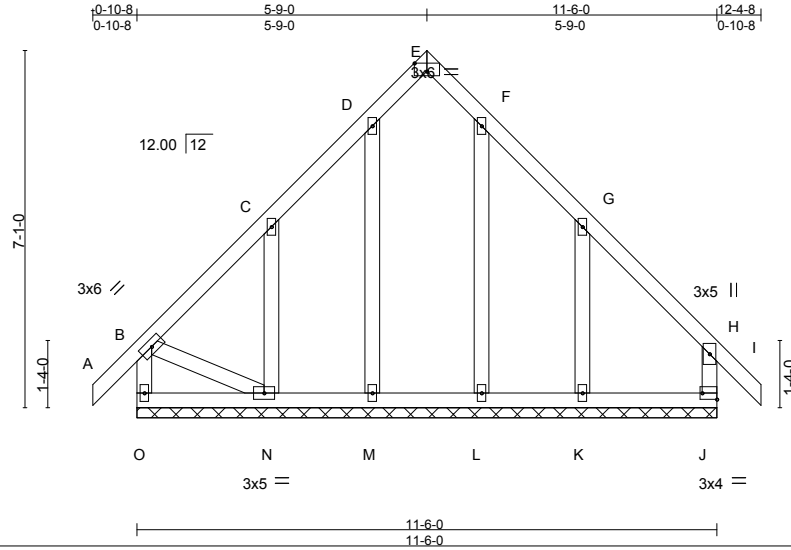
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss S01	Truss Type GABLE	Qty 1	Ply 1	H&H-NC/Dogwood/ 130485226
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:29 2017 Page 1
ID:PFhEEKz0M6?Kz1KM4J4YUBvNvpB-vsV7EqK4kpe6smw1ySmZvijq8Bhx0nJ1WnEluWywruS



Scale = 1:45.7

Plate Offsets (X,Y)-- [E:0-3-0,Edge], [J:Edge,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.52	Vert(LL)	-0.00	l	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(TL)	-0.00	l	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(TL)	0.01	J	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						
								Weight: 79 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-10-3 oc bracing: N-O.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 11-6-0.
(lb) - Max Horz O=-485(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) J except O=-335(LC 6), M=-160(LC 7), N=-563(LC 8), K=-641(LC 9)
Max Grav All reactions 250 lb or less at joint(s) J, N, L, K except O=369(LC 7), M=283(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-O=-350/345, B-C=-378/340, C-D=-183/362, F-G=-65/325
BOT CHORD N-O=-450/481, M-N=-47/326, L-M=-47/326, K-L=-47/326, J-K=-47/326
WEBS D-M=-267/188, C-N=-139/459, G-K=-137/576, B-N=-276/442

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) J except (jt=lb) O=335, M=160, N=563, K=641.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



July 18, 2017

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ENGINEERING BY
TRENCO
A MiTek Affiliate

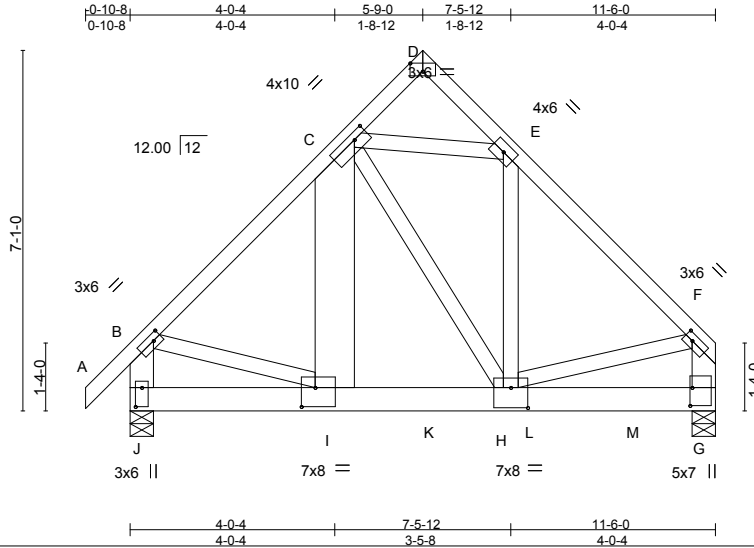
818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss S02	Truss Type Common Girder	Qty 1	Ply 2	H&H-NC/Dogwood/ Job Reference (optional)	130485227
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:30 2017 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-N32VR9LiU7mzUwVDWAHoSwG24bvmICWBIRzsQyywruR



Scale = 1:45.3

Plate Offsets (X,Y)-- [B:0-2-0-0-1-8], [C:0-3-4-0-1-8], [D:0-3-0-Edge], [F:0-2-0-0-1-8], [G:0-4-4-0-0-8], [H:0-4-0-0-4-12], [I:0-3-4-0-4-8], [J:0-4-8-0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.38	Vert(LL)	-0.02	G-H >999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(TL)	-0.06	G-H >999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.30	Horz(TL)	0.01	G	n/a		
BCDL 10.0	Code IRC2009/TP12007		(Matrix-M)	Wind(LL)	0.04	H-I >999	240		
								Weight: 214 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	
C-I: 2x10 SP No.1, B-J,F-G: 2x6 SP No.2	

REACTIONS. (lb/size) J=3345/0-5-8, G=4511/0-5-8
 Max Horz J=414(LC 5)
 Max Uplift J=-2604(LC 6), G=-2338(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-3525/2779, E-F=-3772/2176, B-J=-3305/2580, F-G=-3327/1924
 BOT CHORD I-J=-530/379, I-K=-2033/2432, H-K=-2033/2432, H-L=-232/539, L-M=-232/539, G-M=-232/539
 WEBS C-H=0/903, E-H=-1494/2469, C-I=-2432/1926, B-I=-1870/2375, F-H=-1344/2155, C-E=-2606/1700

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) J=2604, G=2338.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2137 lb down and 2885 lb up at 4-0-4, 1587 lb down and 520 lb up at 5-11-8, and 1596 lb down and 564 lb up at 7-11-8, and 1587 lb down and 601 lb up at 9-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-B=-60, B-D=-60, D-F=-60, G-J=-20
 Concentrated Loads (lb)
 Vert: I=-2137(B) K=-1587(B) L=-1596(B) M=-1587(B)



July 18, 2017

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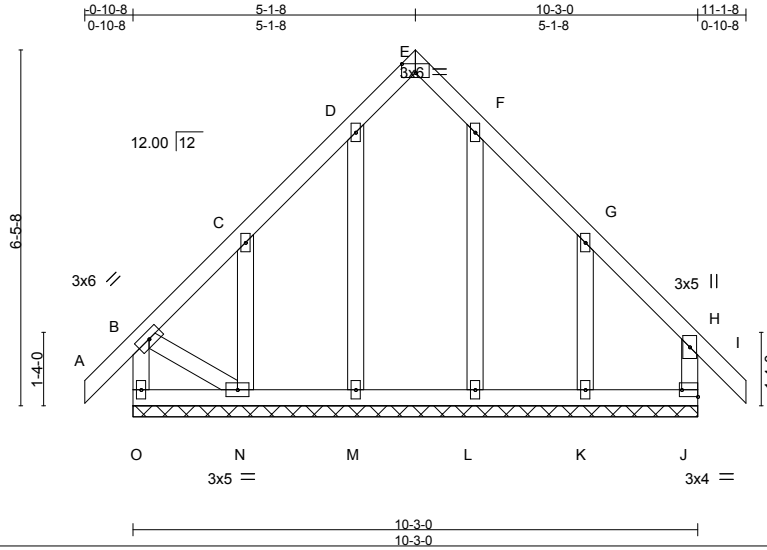
818 Soundside Road
 Edenton, NC 27932

Job 807184_MASTER	Truss T01	Truss Type GABLE	Qty 1	Ply 1	H&H-NC/Dogwood/ 130485228
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 Mitek Industries, Inc. Tue Jul 18 10:59:30 2017 Page 1

ID:PFhEEKzM06?Kz1KM4J4YUByNvpB-N32VR9LiU7mzUwVDWAHoSwG?sb1XIEqBIRzsQyywruR



Scale = 1:41.8

Plate Offsets (X,Y)-- [E:0-3-0,Edge], [J:Edge,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.52	Vert(LL)	-0.00	l	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(TL)	-0.01	l	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(TL)	0.01	J	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)					Weight: 70 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: N-O.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 10-3-0.
 (lb) - Max Horz O=-444(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) J except O=-318(LC 6), M=-165(LC 7), N=-528(LC 8), K=-591(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) J, M, N, L, K except O=385(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-O=-368/324, B-C=-342/285, C-D=-181/288
 BOT CHORD N-O=-395/434, M-N=-48/327, L-M=-48/327, K-L=-48/327, J-K=-48/327
 WEBS C-N=-113/392, G-K=-108/518, B-N=-238/404

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) J except (jt=lb) O=318, M=165, N=528, K=591.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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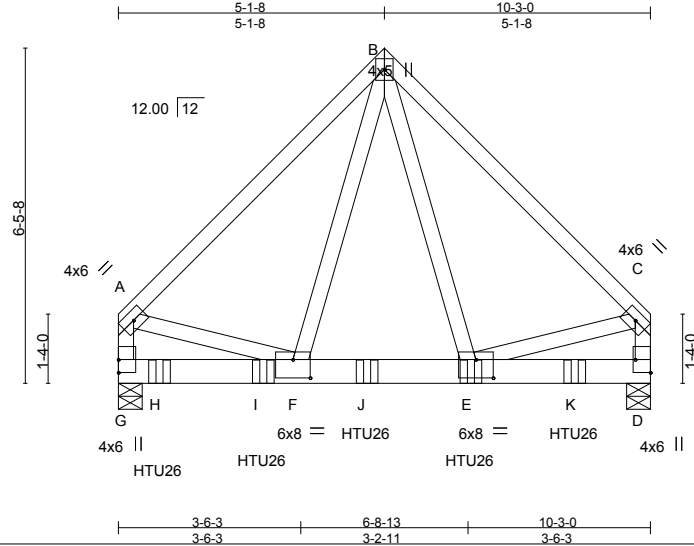


818 Soundside Road
Edenton, NC 27932

Job 807184_MASTER	Truss T02	Truss Type Common Girder	Qty 1	Ply 2	H&H-NC/Dogwood/ Job Reference (optional)	130485229
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Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Tue Jul 18 10:59:31 2017 Page 1
ID:PFhEEKzMO6?Kz1KM4J4YUByNvpB-rFctfVMKFQuq544Q4to1_7pAN?KmUgkKz5jPyOywrUQ



Scale = 1:44.4

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.54	in (loc)	l/defl	L/d	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(LL)	-0.02 E-F	>999			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Vert(TL)	-0.05 E-F	>999			
BCDL	10.0	Code IRC2009/TP12007		(Matrix-M)		Horz(TL)	0.00 D	n/a			
						Wind(LL)	0.03 E-F	>999			Weight: 151 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except*
A-G,C-D: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) G=3892/0-5-8, D=3340/0-5-8
Max Horz G=-340(LC 4)
Max Uplift G=-1158(LC 7), D=-1126(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-2902/943, B-C=-2854/995, A-G=-2658/841, C-D=-2622/888
BOT CHORD G-H=-493/369, H-I=-493/369, F-I=-493/369, F-J=-525/1457, E-J=-183/273, D-K=-183/273
WEBS B-E=-697/1830, B-F=-559/1958, A-F=-628/1780, C-E=-666/1774

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=Ib) G=1158, D=1126.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-9-8 from the left end to 8-9-8 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-C=-60, D-G=-20
Concentrated Loads (lb)
Vert: E=-1226(B) H=-1330(B) I=-1327(B) J=-1327(B) K=-1226(B)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

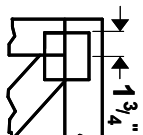
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

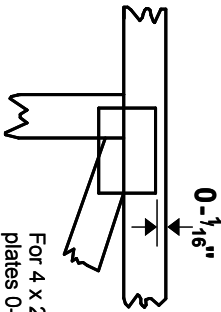
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft.-in.-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

* Plate location details available in **MITek 2020 software** or upon request.

PLATE SIZE

4 X 4

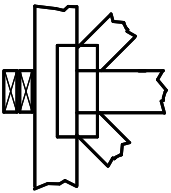
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



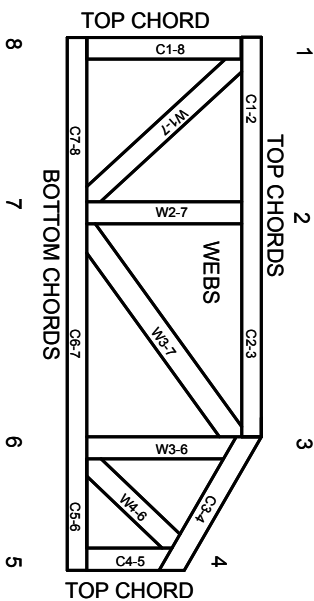
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft.-in.-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.